



SPLIT-TYPE AIR CONDITIONERS

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

Full Product Line Catalogue 2024



Environmental Sustainability Vision 2050

Environmental Declaration

Protect the air, land, and water with our hearts and technologies to sustain a better future for all.



Environmental Sustainability Vision 2 0 5 0

To solve various factors that lead to environment issues, the Mitsubishi Electric Group shall unite the wishes of each and every person, and strive to create new value for a sustainable future.

Three Environmental Action Guidelines

Apply diverse technologies in wide-ranging business areas to solve environmental issues

1

Challenge to develop business innovations for future generations

Publicize and share new values and lifestyles

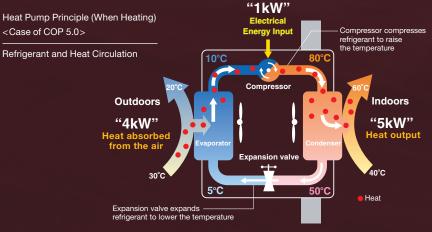
Key Initiatives

- Climate Change Measures - Resource Circulation
- Live in Harmony with

Nature

- Long-term Activities Innovation - Nurturing Human Resources
- Understanding Needs
- Co-create and
- **Disseminate New Values** - Live in Harmony with the Region

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



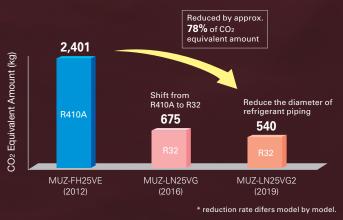


Mitsubishi Electric takes on the challenge of creating new value and contribute to a sustainable future in order to solve various environmental problems.

Preventing Global Warming

Mitsubishi Electric is actively introducing R32 refrigerant which has a global warming potential approximately 1/3 that of R410A refrigerant. Not only by shifting from R410A to R32 but by decreasing the diameter of refrigerant piping, we are also striving to reduce the amount of refrigerant usage. Throught these activities, we have achieved significant reduction in CO₂ equivalent amount compared to conventional models and realised minimizing the negative impact to the environment more than ever.

Reducing the amount of refrigerant usage



Effective use of materials (Reduce & Recycle)

- 1. Accelerating the downsizing technology to reduce material use while balancing energy saving performance.
- 2. Designing products that are easy to separate and recycle.
- 3. All models are designed for WEEE and RoHS (II) compliance.*

*WEEE and RoHS directive: The Waste Electrical and Electronic Equipment (WEEE) Directive is a recycling directive for this type for equipment, while the Restrictions of Hazardous Substances (RoHS) Directive is an EU directive restricting the use of ten specified substances in electronic and electrical devices. In the EU, it is no longer possible (from July 2019) to sell products containing any of the ten substances.

Balancing 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 heat pump heating system to the cold regions to replace combustion heaters.
4. Dual Barrier Coating Dual Barrier Material	Prevents the indoor unit from getting dirty, delivering you clean air.	Keeping the inside of air conditioner clean leads to efficient operation and energy saving.

ONTENTS

日の手沢い

6

New releases	005-006
	007-010
M SERIES	011-054
S SERIES	055-068
P SERIES	069–106
MULTI SPLIT SERIES	107-118
VRF series	119–130
Air Conditioners	
NEW ECODESIGN DIRECTIVE	- 131–132
COMFORT	- 133-134
AIR QUALITY	135–137
	139–140
INSTALLATION & MAINTENANCE	- 141–142
SYSTEM CONTROL	143–144
CONTROL TECHNOLOGIES	145–150
SYSTEM CONTROL	- 151-152
FUNCTION LIST	153-159
OPTIONAL PARTS	161–172
EXTERNAL DIMENSIONS	- 173-192
PIPING INSTALLATION	193-204
M/S/P/Multi/Zubadan/ATW	
CONDITIONS FOR SPECIFICATIONS	
REFRIGERANT AMOUNT	
R32 REFRIGERANT	207-208
LOSSNAY SYSTEM	
	200 250

FEATURES & SPECIFICATIONS 209-250



New releases



LINE-UP

M SERIES

INVERTER Models

Madel New		1.5kW	1.8kW	2.0kW	2.2kW	2.5kW	3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	Page
Model Nan	ne	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	i aye
	MSZ-RW VGHZ Series R32 R410A *1					SINGLE	SINGLE		SINGLE			13
	MSZ-LN Series		W-V-R-B Multi connection only			W-V-R-B SINGLE	W-V-R-B SINGLE		WV-R-B SINGLE	W-V-R-B SINGLE		17
	MSZ-LN VGHZ Series (R32) (R410A)*1					SINGLE	SINGLE		SINGLE			22
	MSZ-AY series MSZ-AY25/35/42/50VGK(P) (R32) (R410A)*2 MSZ-AY15/20VGK(P)	SINGLE		SINGLE		SINGLE	SINGLE	SINGLE	SINGLE			25
	MSZ-AP series R32 R410A ¹¹									SINGLE	SINGLE	29
Wall- mounted	MSZ-E Series R32 R410A ¹¹		W-S-B Multi connection only		W-S-B Multi connection only	W-S-B SINGLE	WSB SINGLE	WSB SINGLE	WSB SINGLE			33
	MSZ-FT VGHZ Series					SINGLE	SINGLE		SINGLE			35
	MSZ-BT Series			SINGLE		SINGLE	SINGLE		SINGLE			37
	MSZ-HR Series MSZ-HR25/35/42/50VF(K)					SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	39
	MSZ-DW Series					SINGLE	SINGLE		SINGLE			41
	MSY-TP Series						SINGLE		SINGLE			43
Comment	MFZ-KT Series					SINGLE	SINGLE		SINGLE	SINGLE		45
Compact floor	MFZ-KW Series					SINGLE	SINGLE		SINGLE	SINGLE		47
1-way cassette	MLZ-KY20VG			Multi connection only		SINGLE	SINGLE		SINGLE			49

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

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

Indoor Combinations

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

TRIPLE 1 outdoor unit & 3 indoor units

QUADRUPLE 1 outdoor unit & 4 indoor units

S SERIES

INVERTER Models

Model Nan	ne	1.5kW 1-phase	2.5kW 1-phase	3.5kW 1-phase	5.0kW 1-phase	6.0kW 1-phase	7.1kW 1-phase	10.0kW	12.5kW 1- & 3-phase	14.0kW 1- & 3-phase	Page
2 x 2 cassette	SLZ Series (R32) R410A	Multi connection only	SINGLE	SINGLE	SINGLE	SINGLE	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	57
Compact ceiling- concealed	SEZ Series (R32) R410A		* Single	* Single	* Single	* Single	SINGLE TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	62
Concealed floor standing	SFZ Series (R32)		SINGLE	SINGLE	SINGLE	SINGLE					66

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

P SERIES

Power Inverter Models / Standard Inverter Models

Model Name	/lodel Name		5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	20.0kW	25.0kW	Page
Woder Name		1-phase	1-phase	1-phase	1-phase	1- & 3-phase	1- & 3-phase	1- & 3-phase	3-phase	3-phase	i age
4-way cassette	PLA Series R32 R410A	SINGLE	SINGLE	SINGLE	SINGLE TWIN *	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	80
Ceiling	PEAD Series R32 R410A	SINGLE	SINGLE	SINGLE	SINGLE TWIN *	SINGLE	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	87
concealed	PEA Series R32 R410A								SINGLE	SINGLE	90
Wall- mounted	PKA Series R32 R410A	* SINGLE	* Single	* SINGLE	SINGLE * TWIN *	SINGLE TWIN	TWIN	TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	92
Ceiling- suspended	PCA-KA Series R32 R410A	SINGLE	SINGLE	SINGLE	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	95
for Professional Kitchen	PCA-HA Series*				SINGLE *			* TWIN		* TRIPLE	98
Floor- standing	PSA Series R32 R410A				SINGLE	SINGLE	SINGLE	SINGLE TWIN	TWIN	TWIN TRIPLE	101

* Power Inverter Model only

LINE-UP

MXZ SERIES INVERTER Models

Model Name	Capacity Class	Page
up to 2 indoor units R32 MXZ-2F33VF4	3.3kW <1-phase>	109
up to 2 indoor units R32 MXZ-2F42VF4	4.2kW <1-phase>	109
up to 2 indoor units MXZ-2F53VF(H)4	5.3kW <1-phase>	109
up to 3 indoor units R32 MXZ-3F54VF4	5.4kW <1-phase>	109
up to 3 indoor units R32 MXZ-3F68VF4	6.8kW <1-phase>	109
up to 4 indoor units R32	7.2kW <1-phase>	109
up to 4 indoor units R32 MXZ-4F80VF4	8.0kW <1-phase>	109
up to 4 indoor units R32 MXZ-4F83VF2	8.3kW <1-phase>	109
up to 5 indoor units R32	10.2kW <1-phase>	109
up to 6 indoor units R32 MXZ-6F120VF2	12.0kW <1-phase>	109
up to 2 indoor units R32 MXZ-2HA40VF2	4.0kW <1-phase>	114
up to 2 indoor units R32 MXZ-2HA50VF2	5.0kW <1-phase>	114
up to 3 indoor units MXZ-3HA50VF2	5.0kW <1-phase>	114

MXZ-VFHZ SERIES INVERTER Models

Model Name		2.5kW	3.5kW	5.0kW	5.3kW	6.0kW	8.3kW	10.0kW	12.5kW	Page
Woder Name		1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1 & 3-phase	3-phase	ruge
Multi split	MXZ-FVFHZ2 Series MXZ-EVAHZ Series (R32) (R410A)				2PORT H		4PORT H			111

* R410A is for PUMY connection.

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

PUMY SERIES INVERTER Models

Model Name	12.5kW	14.0kW	15.5kW	22.4kW	28.0kW	33.5kW	Page
WOUEIName	1 & 3-phase	1 & 3-phase	1 & 3-phase	3-phase	3-phase	3-phase	rage
PUMY-SP R410A	1	1	1				121
PUMY-P R410A	1	1	1	1	1	1	123
PUMY-SM	1	1	1				125

Indoor	Combinations
--------	--------------

SINGLE 1 outdoor unit & 1 indoor unit TWIN 1 outdoor unit & 2 indoor units TRIPLE 1 outdoor unit & 3 indoor units

QUADRUPLE 1 outdoor unit & 4 indoor units

LOSSNAY SERIES

Plasma Quad Protect SERIES

Commerc	Commercial Residential		Air purifier	Air circulator	
Ceiling Conceale	Concealed Type Vertical Type Wall Mounted Type		Small Air Volume type	Large Air Volume type	
LGH-RVX3 Series	LGH-RVS GUF Series	VL-CZPVU Series	VL-100(E)Us-E VL-50(E)Sa-E VL-50SRa-E	JC-23KR-EU	JC-4K-EU



SERIES



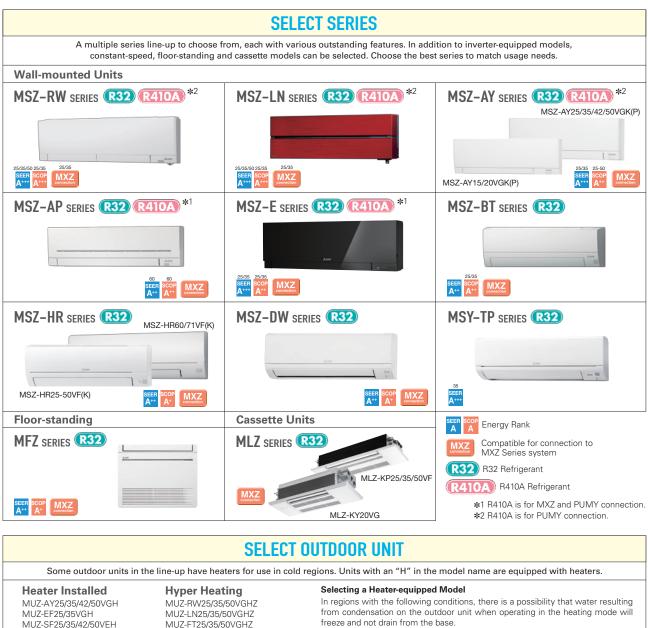






SELECTION

Choose the model that best matches room conditions.



MUZ-SF25/35/42/50VEH

MUZ-LN25/35VG



freeze and not drain from the base.

1) Cold outdoor temperatures (temperature does not rise above 0°C all day) 2) Areas where dew forms easily (in the mountains, valleys(surrounded by mountains), near a forest, near unfrozen lakes, ponds, rivers or hot springs), or areas with snowfall.

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

MSZ-RW R32 R410A Series

As a flagship model, RW series realises further outstanding heating performances under extremely cold outdoor temperature even with high energy efficiency. Moreover, excellent air purifying functions and many other smart features deliver a great comfort to you.



MSZ-RW25/35/50VG

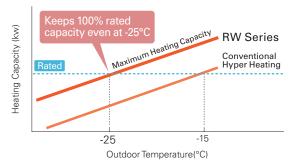
Heating Performance

Excellent heating performance of RW series delivers the prime warmth into your room. RW series' powerful compressor realises re-

markable maximum heating capacity in low ambient temperature with a high energy efficiency. Also, RW series performs 100% rated capacity even at -25°C, and the operation is guaranteed down to -30°C for all classes (25/35/50).



Improved Heating Capacity



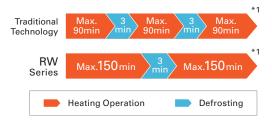
Wider Heating Operation Range



Outdoor Temperature(°C)

Longer Continuous Heating Operation

RW series with a high frost-detecting technology, made it possible to provide maximum continuous heating operation as long as 150 minutes with less frequent defrosting operations, maintaining a comfortable indoor environment in a long term.



*1 The time for heating and defrosting operation depends on the environmental conditions.

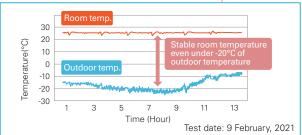


Tested in Sweden and Norway

We have conducted field tests in several cold sites and received high user satisfactions with sufficient air volume and remarkable heating performance of RW series. As the test result shows, we confirmed that RW series provides stable indoor comfortability even in extremely low ambient temperature.



Test result in Norway



3D i-see Sensor

3D i-see sensor with the sophisticated hemispherical design measures the temperature of the room with an infrared sensor and detects the position of people, which allows you to choose your preferable airflow such as indirect and direct airflow.



Circulator Mode

inage is for indication purposes

In heating mode, after reaching the setting temperature, indoor unit automatically starts FAN mode to circulate the air and eliminate temperature unevenness in your room.





Plasma Quad Plus is a plasma-based filtering system which contributes to a better air quality in your room. Plasma Quad Plus applies a voltage of approximately 6,000 volts to the electrode to generate plasma, effectively removing various kinds of airborne particles such as viruses, bacteria, mold, allergen, dust, and PM2.5.





Quick Air Purifying Set

Virus (Airborne)

99% inhibited^{*1}

We have confirmed Plasma Quad Plus inhibits 99.8% of adhered COVID-19. \ast_2

- *1 Tested Organization: vrc. Center, SMC Test Report No: 28-002 Test Method: JEM1467 Test result: Neutralised 99% of Influenza A virus in 72 minutes in a 25m³ test space.
- *2 Tested Organization: Japan Textile Products Quality and Technology Center, Test Report No: 20KB070569, Tested Materials: SARS-CoV-2, Test Method: Original (The test was conducted on the Plasma Quad device alone, not designed to evaluate product performance.) Test Result: Inhibited 99.8% in 360 minutes. The result without the effect of natural attenuation is 96.3%.

Deodorising Filter

If you press "PURIFIER" button when the unit is turned off, Plasma Quad Plus starts to operate with a fan mode and purifies the air in your room.



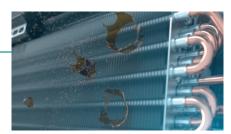
The catalyst in Deodorising Filter denatures the odorous components and destroys them from the source of the odour, quickly delivering fresh air to your room.







Mitsubishi Electric's Dual Barrier Coating prevents dust and greasy dirt from accumulating on the inner surface of the indoor unit; keeping your air conditioner clean. Two barrier coating prevents hydrophilic dirt penetration, and "hydrophilic particles" prevent hydrophobic dirt from getting into the air conditioner.





*Comparison of stains after 10 years of use (based on internal research)

*1 *2 Verified by SIAA test method (JIS Z 2911) with No. JP0501014A0002O on SIAA antifungal agent positive list. Antifungal effect depends on the working environment. Fungicides comply with the SIAA safety criteria. What is SIAA? https://www.kohkin.net/en_index.html

Drive Mode Selector

Drive Mode Selector allows you to select a preferred control setting according to your residential environment from three modes, Wide Room mode, Quiet mode, and Eco mode.

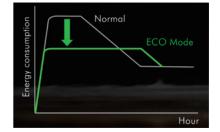
Wide Room Mode

Provides a better air distribution in your room and raises the comfort level.



Eco Mode

Suppresses a sharp increase in energy consumption by a gradual start-up operation.



Quiet Mode

Lowers operation noise level, creating quieter and peaceful environment.



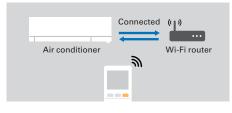
Built-in Wi-Fi & App Control

Indoor unit is equipped with Wi-Fi interface which allows you to access MELCloud app, providing you with a flexible control of air conditioner on your smartphone, tablets, and PC.



Easy Wi-Fi Set Up

You can easily connect Wi-Fi adaptor in the indoor unit and your local router with just a simple operation of remote controller.



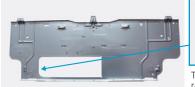
Remote Controller with Backlight

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



Back Plate with a Hole

With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.





The edge of the hole is reinforced to ensure the strength.

Spacer

A part of the packing material can be used as a spacer to lift indoor unit during the left-side piping work, which makes stable installation work possible.



Bottom Removable Structure

The corner box and the bottom panel are individually removable, and it makes easy to insert tools even in the case of left-side piping.



Easy Plugging/Unplugging of Drain Hose

One-touch structure with screw- free claw fixing. Easy to plug and unplug the drain hose when changing on the left and right.



MSZ-RW SERIES	R32 Inverter Correction Correctio
Indoor Unit / Remote Controller	Outdoor Unit
White>Image: Strain Stra	MUZ-RW25/35VGHZ MUZ-RW50VGHZ
3D Fisce Circulator Sonsor Econo Cool Plaxmer Dual Barrier Out Barrier Econo Cool Plaxmer Dual Barrier Material Filter October Plax	rising Double SMING SMING SMING SAUTO Drive Mode Night Back Light Weekly Timer
Control Control	tion Interface connection En Connection Connection Recal

Гуре					Inverter Heat Pump				
ndoor Ur	it			MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG			
utdoor l	Jnit			MUZ-RW25VGHZ	MUZ-RW35VGHZ	MUZ-RW50VGHZ			
efrigera	nt				R32 (*1)	L			
ower	Source			Outdoor Power supply					
upply	Outdoor (V/Phase/H	lz)			230/Single/50				
ooling	Design Load		kW	2.5	3.5	5.0			
	Annual Electricity Co	onsumption (*2)	kWh/a	78	130	230			
	SEER (* 4)			11.2	9.4	7.6			
		Energy Efficiency Class		A+++	A+++	A++			
	Capacity	Rated	kW	2.5	3.5	5.0			
		Min - Max	kW	0.9 - 3.5	1.0 - 4.0	1.4 - 5.8			
	Total Input	Rated	kW	0.435	0.770	1.380			
eating	Design Load		kW	3.2	4.0	6.0			
verage	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)			
eason)(*5)		at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)			
		at operation limit temperature	kW	2.6 (-25°C)	2.6 (-25°C)	4.0 (-25°C)			
	Back Up Heating Ca	pacity	kW	0.0	0.0	0.0			
	Annual Electricity Consumption (*2)			856	1097	1800			
	SCOP (* 4)			5.2	5.1	4.6			
		Energy Efficiency Class		A+++	A+++	A++			
	Capacity	Rated	kW	3.2	4.0	6.0			
		Min - Max	kW	0.8 - 6.3	1.1 - 7.0	1.8 - 8.7			
	Total Input Rated		kW	0.580	0.810	1.450			
peratin	g Current (max)		A	9.8	11.2	15.2			
door	Input	Rated	kW	0.021	0.022	0.041			
nit	Operating Current (r	nax)	A	0.21	0.22	0.37			
	Dimensions	H × W × D	mm	305 - 998 - 247	305 - 998 - 247	305 - 998 - 247			
	Weight		kg	14.5	14.5	14.5			
	Air Volume	Cooling	m³/min	5.1 - 6.5 - 9.0 - 11.5 - 13.7	5.1 - 6.9 - 9.0 - 11.5 - 14.1	7.8 - 9.5 - 11.1 - 13.1 - 16.2			
	(SLo-Lo-Mid-Hi-SHi ^{(*}	lid-Hi-SHi ⁽⁺³⁾) Heating		5.1 - 7.8 - 9.5 - 11.7 - 14.1	5.1 - 7.8 - 9.5 - 11.7 - 14.5	7.8 - 10.7 - 12.5 - 14.7 - 18.2			
	Sound Level (SPL)			19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	26 - 30 - 34 - 39 - 45			
	(SLo-Lo-Mid-Hi-SHi *	3) Heating	dB(A)	19 - 25 - 30 - 36 - 41	19 - 25 - 30 - 36 - 42	25 - 32 - 37 - 41 - 46			
	Sound Level (PWL)	·	dB(A)	58	59	59			
utdoor	Dimensions	H × W × D	mm	714 - 800 - 285	714 - 800 - 285	880 - 840 - 330			
nit	Weight		kg	39.5	40	54			
	Air Volume	Cooling	m³/min	35.1	37.8	49.3			
		Heating	m³/min	37.8	37.8	55.6			
	Sound Level (SPL)	Cooling	dB(A)	46	49	51			
		Heating	dB(A)	49	50	54			
	Sound Level (PWL)	Sound Level (PWL) Cooling		60	61	64			
	Operating Current (r	nax)	A	9.6	11.0	14.8			
	Breaker Size		A	10	12	16			
xt.	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52			
iping	Max. Length	Out-In	m	20	20	30			
	Max. Height	Out-In	m	12	12	15			
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46			
Outdoor]		Heating	°C	-30 ~ +24	-30 ~ +24	-30 ~ +24			

 Ineating
 Ineating

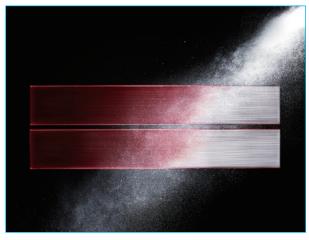
 <th



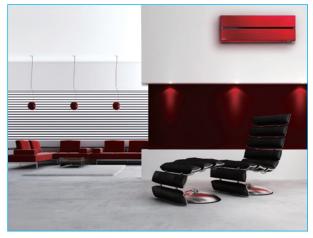
Luminous and Luxurious Design

series.

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



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



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

LED Backlight Remote Controller

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

> The setting can be easily checked in the dark thanks to LED backlight.





Pearl White blends in with any interior.



Onyx Black matches darker interiors, creating a comfortable environment.

Red





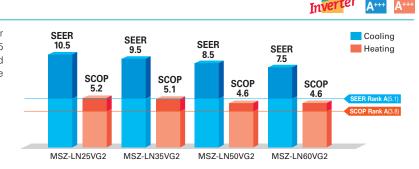


White

Pearl White

Black

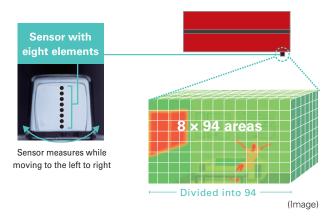
High Energy Efficiency



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

3D i-see Sensor

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



No occupancy energy-saving mode

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



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

Circulator Operation

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

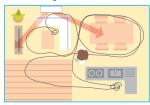
The outdoor unit starts operation automatically when the indoor temperature drops below the setting temperature.

Indirect Airflow

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



Even Airflow *LN Series only Normal swing mode



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

No occupany Auto-OFF mode *LN Series only

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





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



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



This operation can help to circulate and rense warm air

Even airflow mode

Direct Airflow

(cold) day.

This setting can be used to directly target

airflow at people such as for immediate

comfort when coming indoors on a hot

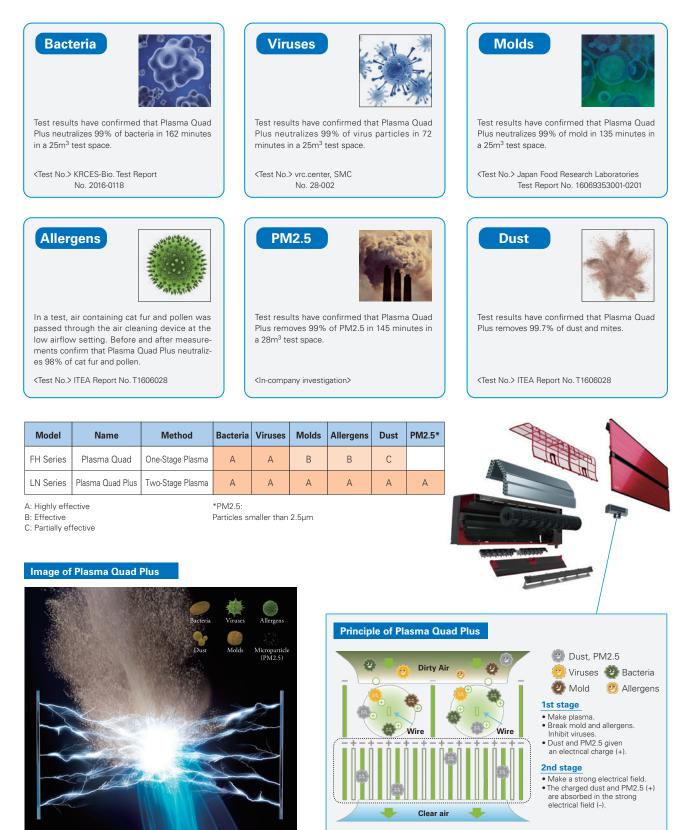


The 3D i-see sensor memorizes human move-

ment and furniture positions, and efficiently distributes airflow.

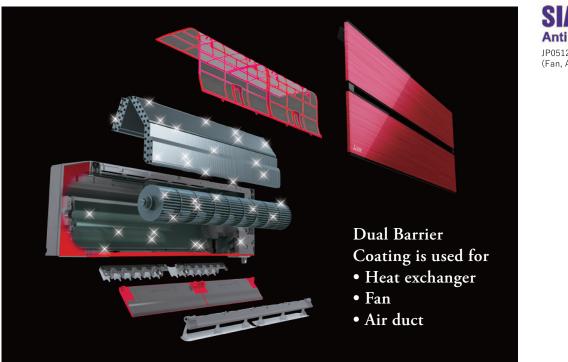
Plasma Quad Plus

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





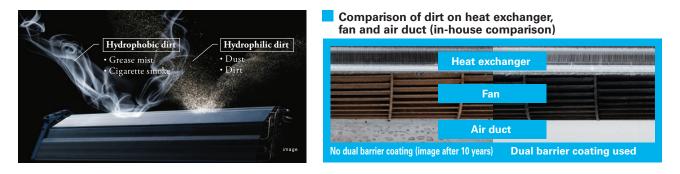
A two-barrier coating prevents dust and greasy dirt from getting into the air conditioner.





State-of-the-art coating technology

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



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

 Fan

 New
 10 years later (image)
 Consequences when the inside of the indoor unit is left dirty

 New
 10 years later (image)
 Consequences when the inside of the indoor unit is left dirty

 New
 10 years later (image)
 Consequences when the inside of the indoor unit is left dirty

 New
 Difference
 Output to years later (image)
 Consequences when the inside of the indoor unit is left dirty

 New
 Difference
 Output to years later (image)
 Output to years later (image)

 New
 Difference
 Output to years later (image)
 Consequences when the inside of the indoor unit is left dirty

 New
 Output to years later (image)
 Output to years later (image

*1 Verified by SIAA test method (JIS Z 2911) with No. JP0501014A0002O on SIAA antifungal agent positive list. Antifungal effect depends on the working environment. Fungicides comply with the SIAA safety criteria.

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.



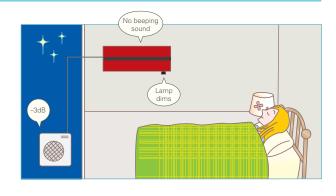


Night Mode

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.

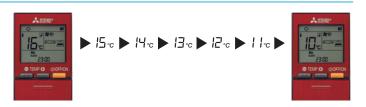
*The cooling/heating capacity may drop.



10°C Heating

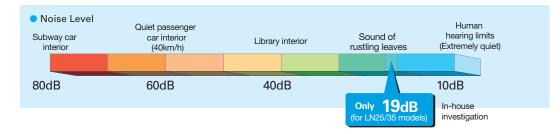
During heating operation, the temperature can be set in 1°C increments down to $10^{\circ}\text{C}.$

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



Quiet Operation

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



Built-in Wi-Fi Interface

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

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



LNVGHZ RAIOA Single / MXZ, PUMY PUMY SERIES

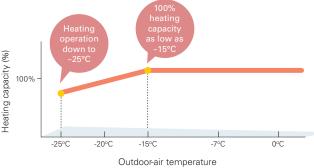
Unlike conventional air conditioning systems, the LN Series don't lose heating capacity when it's cold outside. Original technologies ensure excellent heating performance under extremely low outdoor temperatures and an impressive guaranteed operating range.



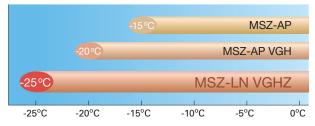
MSZ-LN25/35/50VG2(W)(V)(R)(B)

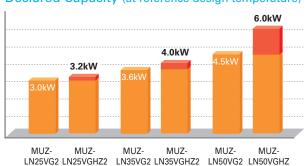
Unparalleled Heating Performance

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



Operating Range



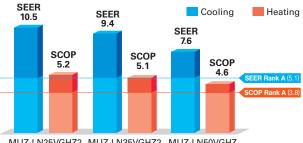


Declared Capacity (at reference design temperature)



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

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



MUZ-LN25VGHZ2 MUZ-LN35VGHZ2 MUZ-LN50VGHZ

Freeze-prevention Heater Equipped as Standard

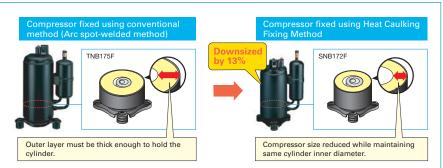
The Freeze-prevention heater restricts lowered capacity and operation shutdowns caused by the drain water freezing. This supports stable operation in low-temperature environments.



*Image is for illustration purposes. The actual performance depends on outdoor 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.



MSZ-LN series	Inverter					
Indoor Unit / Remote Controller	R32 R410A GOOD DESIGN AWARD 2 BEST 10					
<pearl white=""></pearl>	<ruby red=""></ruby>	MUZ-LN25/35VG2				
MSZ-LN18/25/35/50/60VG2V	MSZ-LN18/25/35/50/60VG2R					
<natural white=""></natural>	<onyx black=""></onyx>	MUZ-LN50VG2				
MSZ-LN18/25/35/50/60VG2W	MSZ-LN18/25/35/50/60VG2B	MUZ-LN60VG2				
	Quart Quart Plus Plus Plus Plus Plus Plus Quart Plus Plus Plus Quart Plus Quart Plus Quart Plus Quart Plus Plus Plus Plus Plus Plus Plus Plus					
Cooling Control	Optional Win-Fit 10) Commettion Commettion 12 / 25 / 25 / 20	Back Light Remote Faire Connection Cougnost Recall				

Туре						Inverter Heat Pump		
Indoor Ur	nit			MSZ-LN18VG2	MSZ-LN25VG2	MSZ-LN35VG2	MSZ-LN50VG2	MSZ-LN60VG2
Outdoor	Unit			for MXZ connection	MUZ-LN25VG2	MUZ-LN35VG2	MUZ-LN50VG2	MUZ-LN60VG2
Refrigera	nt				Sir	ngle: R32 ⁽¹⁾ / Multi: R410A or R3:	2(*1)	
Power	Source				$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$			
Supply	Outdoor (V / Ph	nase / Hz)				230 / Single / 50		
	Design load		kW	-	2.5	3.5	5.0	6.1
	Annual electricity	consumption (*2)	kWh/a	MSZ-LN18VG2 MSZ-LN2SVG2 MSZ-LN50VG2 MSZ-LN50VG2 MUZ-LN2SVG2 MUZ-LN2SVG2	205	285		
	SEER (*4)			-	10.5	9.5	8.5	7.5
Cooling		Energy efficiency class		-	A+++	A+++	A+++	A++
Ideor Unit Iutdoor Unit Iutdoor Unit Iutdoor Unit Iutdoor Unit Iutdoor Unit Iutdoor Unit Iutdoor I Iutdoor Iutd	0	Rated	kW	-	2.5	3.5	5.0	6.1
	Capacity	Min-Max	kW	-	1.0 - 3.5	0.8 - 4.0	1.0 - 6.0	1.4 - 6.9
	Total Input	MSZ-LN18VG2 MSZ-LN25VG2 MM for MX2 connection MUZ-LN25VG2 MM for MX2 connection MUZ-LN25VG2 MM Single: R32 ^{CII} Outdo coad kW - 231 cad kW - 2.5 231 coad kW - 0.5 231 coad kW - 0.5 231 coad kW - 0.5 231 coad kW - 0.485 301 oad kW - 0.485 301 100-3.5 oad dia reference design temperature kW - 3.0 (10°C) 301 301 10°C) 301 10°C) 301 10°C) 301 10°C) 301 10°C) 10°C 10°C <td>0.820</td> <td>1.380</td> <td>1.790</td>	0.820	1.380	1.790			
	Design load		kW	-	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
Ideor Unit Iutdoor Unit Iutdoor Unit Iutdoor Unit Iutdoor Unit Iutdoor Unit Iutdoor Unit Iutdoor		at reference design temperature	kW	-	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
	Declared Capacity	at bivalent temperature	kW	-	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
	Capacity	at operation limit temperature		-	2.5 (-15°C)	3.2 (-15°C)	4.2 (-15°C)	6.0 (-15°C)
leating	Back up heating	g capacity	kW	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
Average		consumption (*2)	kWh/a	-	807	987	1369	1816
eason)(*5)	SCOP (*4)			-			4.6	4.6
Average Average Season) ^(*) Dperating		Energy efficiency class		-	A+++	A+++	A++	A++
	Capacity	Rated	kW	-	3.2	4.0	6.0	6.8
	Capacity	Min-Max	kW	-	0.7 - 5.4	0.9 - 6.3	1.0 - 8.2	1.8 - 9.3
	Total Input	Rated	kW	-	0.600	0.820	1.480	1.810
Operatin	g Current (Max)		A	-	7.1	9.9	13.9	15.2
lr	Input	Rated	kW	0.027	0.027	0.027	0.034	0.040
	Operating Current(Max)		A	0.3	0.3	0.3	0.4	0.4
	Dimensions	H*W*D	mm	307-890-233	307-890-233	307-890-233	307-890-233	307-890-233
	Weight	eight		14.5 (W) 15.5 (V, R, B)	14.5 (W) 15.5 (V, R, B)	14.5 (W) 15.5 (V, R, B)	15 (W) 16 (V, R, B)	15 (W) 16 (V, R, B)
	Air Volume (SLo-	Cooling	m³/min	4.7 - 5.9 - 7.1 - 9.2 - 12.4	4.7 - 5.9 - 7.1 - 9.2 - 12.4	4.7 - 5.9 - 7.1 - 9.2 - 13.0	5.7 - 7.6 - 8.8 - 10.6 - 13.9	7.1 - 8.8 - 10.6 - 12.7 - 15.
	Lo-Mid-Hi-SHi ^(*3))	Heating	m ³ /min	4.5 - 6.6 - 7.5 - 11.0 - 13.9	4.5 - 6.6 - 7.5 - 11.0 - 13.9	4.5 - 6.6 - 7.5 - 11.0 - 13.9	5.4 - 6.4 - 8.5 - 10.7 - 15.7	6.6 - 9.5 - 11.5 - 13.6 - 15
	Sound Level (SPL)	Cooling	dB(A)		19 - 23 - 29 - 36 - 42			29 - 37 - 41 - 45 - 49
	(SLo-Lo-Mid-Hi-SHi ^(*3))		. ()					29 - 37 - 41 - 45 - 49
	Sound Level (PWL)	Cooling	dB(A)	58				65
	Dimensions	H*W*D	mm	-				880-840-330
	Weight		kg	-	33	34	40	53
	Air Volume			-				48.8
wtdoor	All Volume	Heating		-				55.0
	Sound Level (SPL)			-				55
	000010 20101 (01 2)	Heating	dB(A)	-		50		55
	Sound Level (PWL)		dB(A)	_				65
		ent (Max)		-				14.8
	Breaker Size							16
	Diameter		mm	_				6.35/12.7
	Max.Length		m	-				30
	Max.Height					.=	.=	15
	eed Operating						· · · ·	-10 ~ +46
Range (C	Dutdoor)	Heating	°C	-	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

(1) Refigerant with lower global warming potential (GWP) vocal contribute less to global warming the leakage contributes to dimate to change. Refigerant with lower global warming potential (GWP) vocal contribute less to global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refigerant fluid would be leaked to the atmosphere. This approximation would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refigerant circuit yourself or 675 in the IPCC 4th Assessment Report.
(2) Energy consumption based on standard test results. Actual energy consumption wild depend on how the appliance is used and where it is located.
(3) 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".

MSZ-LN VGHZ series	R32 Inverter Comment of the law o
Indoor Unit / Remote Controller <pearl white=""></pearl>	COUD DESIGN AWARD 2016 BEST 100 CRuby Red>
MSZ-LN25/35/50VG2V <natural white=""> MSZ-LN25/35/50VG2W</natural>	MSZ-LN25/35/50VG2R
	Processors Dual Barrier V Blocking Costing Double Uncessors SMNG Vane SMNG Vane SMNG Vane SMNG Vane SMNG Vane SMNG Vane SMNG Vane Support Weekly Timer Support Support Wi-Fi J) Normaction Correction Mi-Fi J) Vane Max Support Support Support Support Flats Connection Flats Conn

Туре					Inverter Heat Pump				
ndoor Ur	it			MSZ-LN25VG2(W)(V)(R)(B)	MSZ-LN35VG2(W)(V)(R)(B)	MSZ-LN50VG2(W)(V)(R)(B)			
Dutdoor	Jnit			MUZ-LN25VGHZ2	MUZ-LN35VGHZ2	MUZ-LN50VGHZ2			
Refrigera	nt				R32 (*1)				
ower	Source			Outdoor Power supply					
Supply	Outdoor (V/Phase/H	lz)			230/Single/50				
Cooling	Design Load		kW	2.5	3.5	5.0			
	Annual Electricity Co	onsumption (*2)	kWh/a	83	130	230			
	SEER (* 4)			10.5	9.4	7.6			
		Energy Efficiency Class		A+++	A+++	A++			
	Capacity	Rated	kW	2.5	3.5	5.0			
		Min - Max	kW	0.8 - 3.5	0.8 - 4.0	1.4 - 5.8			
	Total Input	Rated	kW	0.485	0.820	1.380			
leating			kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)			
Average	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (–10°C)			
eason)(*5		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 Ca		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)			
	Annual Electricity Co		kWh/a	861	1098	1826			
	SCOP (*4)			5.2	5.1	4.6			
		Energy Efficiency Class		A+++	A+++	A++			
	Capacity	Rated	kW	3.2	4.0	6.0			
		Min - Max	kW	0.8 - 6.3	0.9 - 6.6	1.8 - 8.7			
	Total Input Rated		kW	0.600	0.820	1.480			
peratin	g Current (max)	•	A	9.9	10.5	15.2			
ndoor	Input	Rated	kW	0.027	0.027	0.034			
nit	Operating Current (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	Cooling	m ³ /min	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 12.8	5.7 - 7.6 - 8.9 - 10.6 - 13.9			
	(SLo-Lo-Mid-Hi-SHi ^{(*}	³⁾) Heating	m ³ /min	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7	5.4 - 6.4 - 8.5 - 10.7 - 15.7			
	Sound Level (SPL)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46			
	(SLo-Lo-Mid-Hi-SHi ^{(*}	3) Heating	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47			
	Sound Level (PWL)	1 -	dB(A)	58	58	60			
utdoor	Dimensions	H × W × D	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330			
nit	Weight	•	kg	35	36	53			
	Air Volume	Cooling	m³/min	31.4	33.8	48.8			
		Heating	m ³ /min	27.4	27.4	55.0			
	Sound Level (SPL)	Cooling	dB(A)	46	49	51			
		Heating	dB(A)	49	50	54			
	Sound Level (PWL)	Cooling	dB(A)	60	61	64			
	Operating Current (r	nax)	A	9.6	10.2	14.8			
	Breaker Size		A	10	12	16			
xt.	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52			
Piping	Max. Length	Out-In	m	20	20	30			
	Max. Height	Out-In	m	12	12	15			
Guarante Outdoor	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46			

 Instrument
 Impleting
 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 C02, 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 dth 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) SEH. Stoper High

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

 (*5) Please see page 53-54 for heating (warmer season/colder season) specifications.

MSZ-AY SERIES

The AY series has an excellent cleanliness feature and ranges to two models: the VGK model comes standard with the V Blocking Filter, which has antiviral, antibacterial, anti-mold, and anti-allergen effects, and the VGKP model comes standard with Plasma Quad Plus, which can collect PM2.5 dust in addition to these effects. The AY series has also been upgraded in terms of quietness, energy efficiency, and ease of installation. Enjoy a comfortable air environment with the AY series.

MSZ-AY15/20VGK(P)





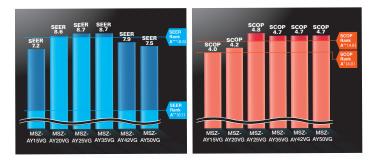


High energy saving



The AY series have achieved either the "Rank A^{+++} " or "Rank A^{++} " for SEER and SCOP as energy-savings rating.

The high-efficiency air conditioner is eco-friendly and economical.





Matt and Sophisticated Design

The elegant and sophisticated design has been created to fit in any room, with careful attention to detail in the surface finish and panel angles.



Rounded corners

The rounded corners give a soft impression that blends in with any room.

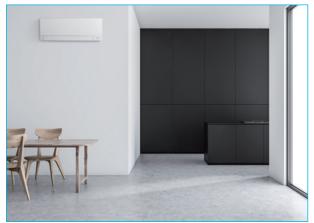
Simple and Compact size

While the plasma is built-in, the angle of the curve is carefully designed to maintain the compact unit.

Widely Ranged Capacities

Compact and stylish models are available.

The wide range of capacities is designed to match a variety of room types. In particular, the 1.5kW and 2.0kW models are ideal for children's rooms, bedrooms, and highly insulated homes.



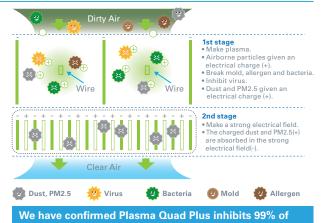


MSZ-AY25/35/42/50VGK(P)



You can enjoy the clean and safe air by Plasma Quad Plus.

Plasma Quad Plus is a plasma-based filtering system which contributes to a better air quality in your room. Plasma Quad Plus applies a voltage of approximately 6,000 volts to the electrode to generate plasma, effectively removing various kinds of airborne particles such as viruses, bacteria, mold, allergen, dust, and PM2.5.



adhered COVID-19.

Positively charged antiviral detergent on t surface of filter breaks the cell membrane and deactivates the growth of virus.

- *Tested Organization: National Hospital Organization Sendai Medical Center, Test Report No: R4-001 Test result: Neutralised 99% of influenza A virus in 210.5 minutes in a 25m³ test space
- *Tested Organization: Japan Textile Products Quality and Technology Center, Test Report No: 20KB070569, Tested Materials: SARS-CoV-2, Test Method: Original (The test was conducted on the Plasma Quad device alone, not designed to evaluate product performance.) Test Result: Inhibited 99.8% in 360 minutes. The result without the effect of natural attenuation is 96.3%.

The above test results are for AY25-50. Test results for AY15/20 are on p10



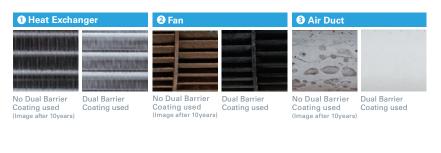
"V Blocking Filter" with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with nonwoven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.

Virus Test method: JIS L 1922, Tested Organization: Guangdong Detection Center of Microbiology, Test Report No: 2020FM30156R02D, Test result: 99% neutralized in 24 hours in a Testing Container. Bacteria Test method: JIS L 1902, Tested Organization: Boken Quality Evaluation

Institute, Test Report No: 29020006998-1, Test result: 99% neutralized in 18 hours in a Petri dish. Mold Test method: JIS Z 2911, Tested Organization: Boken Quality Evaluation Institute, Test Report No: 29020006906-1, Test result: No moldgrowth was confirmed. Allergen Test method: ELISA, Tested Organization: Daiwa Chemical Industries Co., Ltd, Test Report No: 2021B267, Test result: 96% neutralized in24 hours.

Dual Barrier Coating OB

Mitsubishi Electric's Dual Barrier Coating prevents dust and greasy dirt from accumulating on the inner surface of the indoor unit, keeping your air conditioner clean. Hydrophilic material resists oil stains and hydrophobic material resists dust stains.





A Maintains clean unit interior.

Self Clean

When Self Clean Mode is activated, fan operation starts after cooling/dry mode. This operation helps to dry inside indoor unit to prevent molds and odors. You can feel the clean air without frequent cleaning by yourself.

1 High humidity inside the unit, which can lead to mold growth and odors.



Airflow operation suppresses mycelial growth.



*When SELF CLEAN operation is set, it performs for 25 minutes when unit is stopped after COOL/DRY operation. SELF CLEAN operation performs when: COOL/DRY is operated more than 3 minutes. The fan is stopped for the first 3 minutes. Then, the horizontal vane is set to higher than angle 1 and the fan is operated for 25 minutes. To enable this function, press "Self Clean Mode" button on remote controller. (Default setting is OFF)

Quietness 18dB



Quiet, relaxing space is within reach. Operational noise is 18dB (for AY25/35 single connection), which is so quiet that you might even forget the air conditioner is on.

No beeping sound

Lamp dims

Night mode

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

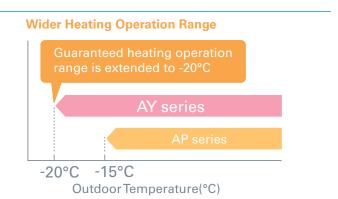
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will be 3dB lower than the rated operating noise specification.

*The cooling/heating capacity may drop.



🔆 Wider Heating Operation Range

Mitsubishi Electric technology ensures that the unit will operate even when the outside temperature is down to -20°C for AY20/25/ 35/42/50 single connection only.

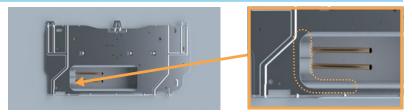


Outdoor Units for Cold Region



😶 Back Plate with a Hole

With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.



The edge of the hole is reinforced to ensure the strength.

🖬 Spacer

A part of the packing material can be used as a spacer to lift indoor unit during the left-side piping work, which makes stable installation work possible.



📴 Built-in Wi-Fi & App Control

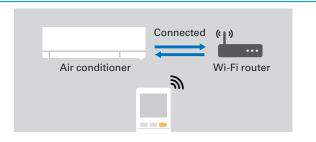
Indoor unit is equipped with Wi-Fi interface which allows you to access MELCloud app, providing you with a flexible control of air conditioner on your smartphone, tablets, and PC.

- [key control and monitoring features]
- On/Off
- ullet Check and set driving conditions
- ${\ensuremath{\bullet}}$ Notification of weather conditions from current location
- Weekly timer set
- Energy consumption check
- Air purification on/off



Easy Wi-Fi Set Up

You can easily connect Wi-Fi adaptor in the indoor unit and your local router with just a simple operation of remote controller.



Remote Controller features

The remote controller screen is equipped with LED backlight. The luminous screen allows you to check the setting easily even in the dark. You can easily connect Wi-Fi adaptor in the indoor unit and your local router with just a simple operation of remote controller.





R32 Single / Multi 2410A Multi



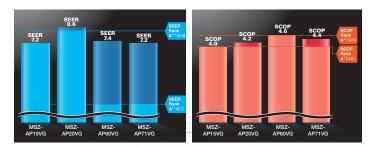


reddot award 2018 winner

High energy saving

The classes from the low-capacity 25 to the high-capacity 60, 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.

to match number of rooms. High performance indoor and outdoor units enabled to achieve "Rank A⁺⁺⁺" for SEER. *MSZ-AP20VG





Large capacity model

Suitable model for large rooms.





Wide and Long Airflow

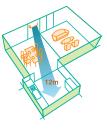
The wide and long airflow function is especially beneficial for large spaces, helping to ensure that air is well circulated and reaches every corner of the room.

Wide Airflow

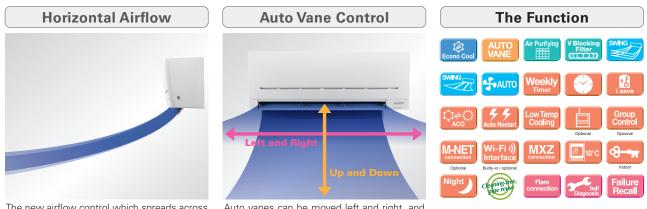
This unique airflow system distributes air horizontally over a wide-ranging 150° in heating mode and 100° in cooling mode. Simply press the Wide Swing icon on the remote controller to select the desired airflow from seven different patterns.

Long Airflow

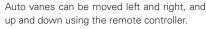
Use this function to ensure that the airflow circulates to areas far across the room. Press the Long Airflow icon on the remote controller to extend reach up to as far as 12 metres from the unit.



Evolved comfortable convenience function



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



"WeeklyTimer"

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	
			Automatically change	es to high-power opera	tion at wake-up time	1		
8:00								
10:00	055	055	055	055	055	011 4000	011 1000	
15:00	OFF	OFF	OFF	OFF	OFF	ON 18°C Midday is warmer	ON 18°C	
14:00		Automatio	cally turned off during w	vork hours			emperature is set lower	
16:00								
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	
20:00		Automatically tur	ns on, synchronized wi	th arrival at home		Automatically raises ter	mperature setting to de-air temperature is low	
00:55								
during sleeping hours)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	
		Autom	atically lowers tempera	ture at bedtime for ene	ergy-saving operation	at night		

Pattern Settings: Input up to four settings for each day

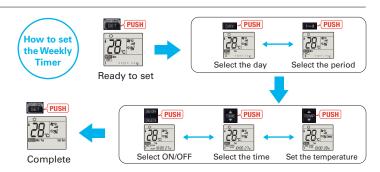
Settings Settings: •Start/Stop operation •Temperature setting *The operation mode cannot be set.

Easy set-up using dedicated buttons



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





Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired patterns into the remote controller memory. Pushing the "CANCEL" button will end the set-up process without sending the operation patterns to the indoor unit.
It takes a few seconds to transmit the Weekly Timer operation patterns to the indoor unit. Please continue to point the remote controller at the indoor unit until all data has been sent.
When "Weekly Timer" is set, temperature can not be set 10°C. (only for 15/20 models)

MSZ-AY series	Joint Lop	PAM SEER SCOP Groved Party
Indoor Unit R32	Outdoor Unit R32	Remote Controller
MSZ-AY15/20VGK(P)	MUZ-AY15VG MUZ-AY20VG	
Amer MSZ-AY25/35/42/50VGK(P)	MUZ-AY25/35/42VG(H) MUZ-AY50VG(H)	
Circulator Sc Owy Sc Owy Sc Owy Circulator Econo Cool E.E.ER.Owy Sc Owy Circulator Econo Cool E.E.ER.Owy Circulator Econo Cool E.E.ER.Owy Circulator	AUTO VANE SWNG 25 Story	Weekly
Acco	Connection Connection Connection	Failure Recall

Туре			-					Inverter H	leat Pump				
Indoor Ur	nit			MSZ-AY15VGK(P)	MSZ-AY20VGK(P)	MSZ-AY25VGK(P)	MSZ-AY25VGK(P)	MSZ-AY35VGK(P)	MSZ-AY35VGK(P)	MSZ-AY42VGK(P)	MSZ-AY42VGK(P)	MSZ-AY50VGK(P)	MSZ-AY50VGK(P)
Outdoor I	Unit			MUZ-AY15VG	MUZ-AY20VG	MUZ-AY25VG	MUZ-AY25VGH	MUZ-AY35VG	MUZ-AY35VGH	MUZ-AY42VG	MUZ-AY42VGH	MUZ-AY50VG	MUZ-AY50VGH
Refrigerar	nt				R32 ⁽¹¹⁾								
Power	Source							Outdoor Po	ower supply				
Supply	Outdoor (V / Ph	ase / Hz)							ngle/50				
	Design load	,	kW	1.5	2.0	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
	Annual electricity	consumption (*2)	kWh/a	72	81	100	100	141	141	186	186	232	232
	SEER (*4)			7.2	8.6	8.7	8.7	8.7	8.7	7.9	7.9	7.5	7.5
Cooling	-	Energy efficiency class		A++	A+++	A+++	A+++	A+++	A+++	A++	A++	A++	A++
J J J		Rated	kW	1.5	2.0	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
	Capacity	Min-Max	kW	0.5-2.2	0.6-2.7	0.9-3.4	0.9-3.4	1.1-3.8	1.1-3.8	0.9-4.5	0.9-4.5	1.4-5.4	1.4-5.4
	Total Input	Rated	kW	0.370	0.460	0.600	0.600	0.990	0.990	1.300	1.300	1.540	1.540
	Design load		kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)
		at reference design temperature	kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)
	Declared	at bivalent temperature	kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	3.8 (-10°C)	4.2 (-10°C)	4.2 (-10°C)
	Capacity	at operation limit temperature	kW	1.6 (-15°C)	1.8 (-20°C)	1.9 (-20°C)	1.9 (-20°C)	2.0 (-20°C)	2.0 (-20°C)	2.7 (-20°C)	2.7 (-20°C)	3.0 (-20°C)	3.0 (-20°C)
	Back up heating		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
Heating		ty consumption (*2)	kWh/a	558	766	697	709	863	880	1131	1146	1248	1265
(Average	SCOP (*4)	,		4.0	4.2	4.8	4.7	4.7	4.6	4.7	4.6	4.7	4.6
Season)(*5)		Energy efficiency class		A+	A+	A++	A++						
		Rated	kW	2.0	2.5	3.2	3.2	4.0	4.0	5.2	5.2	5.5	5.5
	Capacity	Min	kW	0.5	0.5	1.0	1.0	1.3	1.3	1.3	1.3	1.4	1.4
		Max at 7°C	kW	3.1	3.5	4.1	4.1	4.6	4,6	6.0	6.0	7.3	7.3
	Total Input	Rated	kW	0.500	0,600	0.780	0.780	1.030	1.030	1.390	1.390	1.470	1.470
Operatin	g Current (Max)	1 atou	A	5.5	7.0	7.6	7.6	7.6	7.6	9.9	9,9	13.8	13.8
operating	Input	Rated	kW	0.017	0.019	0.026	0.026	0.026	0.026	0.032	0.032	0.032	0.032
	Operating Curre		A	0.17	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Dimensions	H*W*D	mm	250-760-199	250-760-199	299-798-245	299-798-245	299-798-245	299-798-245	299-798-245	299-798-245	299-798-245	299-798-245
	Weight	11110	kg	VGKP 9.1, VGK 8.9	VGKP 9.1, VGK 8.9	VGKP:11, VGK:10.5	VGKP:11, VGK:10.						
Indoor	Air Volume	Cooling	m ³ /min	2.8 - 3.7 - 4.4 - 5.2 - 6.1	2.8 - 3.7 - 4.4 - 5.2 - 6.6		3.6-5.0 - 6.3 - 7.8-10.5	3.6-5.0-6.3-7.8-11.1	3.6-5.0-6.3-7.8-11.1	4.5 - 5.7 - 7.0 - 8.4 - 10.5	4.5 - 5.7 - 7.0 - 8.4 - 10.5	5.2 - 6.4 - 7.5 - 9.1 - 11.7	5.2 - 6.4 - 7.5 - 9.1 - 11
Unit	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	m ³ /min	2.8 - 3.9 - 4.5 - 5.4 - 6.1	2.8 - 3.9 - 4.5 - 5.4 - 7.1	4.0 - 5.0 - 6.6 - 8.0 - 11.8	4.0 - 5.0 - 6.6 - 8.0 - 11.8	4.0 - 5.0 - 6.6 - 8.0 - 11.8	4.0 - 5.0 - 6.6 - 8.0 - 11.8		4.4 - 5.4 - 7.0 - 8.6 - 12.9	4.8 - 5.7 - 7.3 - 9.1 - 12.9	4.8 - 5.7 - 7.3 - 9.1 - 12
	Sound Level (SPL)	Cooling	dB(A)	19 ⁽¹⁶⁾ - 26 - 30 - 35 - 40	19 ^{rej} - 26 - 30 - 35 - 42		18 - 24 - 30 - 36 - 42	18 - 24 - 30 - 36 - 42	18 - 24 - 30 - 36 - 42		21 - 29 - 34 - 38 - 42	28 - 33 - 36 - 40 - 44	28 - 33 - 36 - 40 - 4
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	19 ⁽¹⁶⁾ - 26 - 30 - 35 - 40	19 ⁽¹⁶⁾ - 26 - 30 - 35 - 42			18 - 24 - 31 - 38 - 45	18 - 24 - 31 - 38 - 45		21 - 29 - 35 - 40 - 45		28 - 33 - 38 - 43 - 4
	Sound Level (PWL)	Cooling	dB(A)	54	57	57	57	57	57	57	57	58	58
	Dimensions	H*W*D	mm	538-699-249	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285	714-800-285
	Weight		kg	23	27.5	27	27	28.5	28.5	34	34	40.5	40.5
		Cooling	rs m³/min	26	32.2	32.2	32.2	32.2	32.2	34	32	40.5	40.5
	Air Volume	Heating	m ³ /min	20	29.8	29.8	29.8	29.8	29.8	28.1	28.1	37.4	37.4
Outdoor		Cooling	dB(A)	45	47	47	47	49	49	50	50	52	52
Unit	Sound Level (SPL)	Heating	dB(A)	45	47	48	47	50	50	51	51	52	52
	Sound Level (PWL)	Cooling	dB(A)	58	59	59	59	61	61	61	61	64	64
	Operating Curre		A	5.3	6.8	7.3	7.3	7.3	7.3	9.6	9.6	13.5	13.5
	Breaker Size	ant (midA)	A	10	10	10	10	10	10	10	10	16	16
	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	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
Ext.	Chargeless piping lengh	Out-In	m	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
Piping	Max.Length	Out-In	m	20	20	20	20	20	20	20	20	20	20
	Max.Height	Out-In	m	12	12	12	12	12	12	12	12	12	12
Cuerert		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (O	ed Operating	Heating	°C	-10 ~ +40	-10 ~ +40	-10 ~ +40 -20 ~ +24	-10 ~ +40	-10 ~ +40	-10 ~ +40 -20 ~ +24	-10 ~ +40	-10 ~ +40	-10 ~ +40	-10 ~ +40
		r ieaui ly		-10 ~ +24	-20 ~ +24	-20 ~ +24	-20~+24	-20~+24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20~+24	-20 ~ +24

 Heating
 C
 -15 + 224
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24
 -20 - +24

MSZ-AP series	JOINT LED DO FAIL MADE DO FAIL MADE					
Indoor Unit R32 R410A *VGK model Wi-Fi Interface built-in.	Outdoor Unit R32 Remote Controller					
MSZ-AP60/71VG(K)	MUZ-AP60VG MUZ-AP71VG2					
Image: Natural Econo Cool Natural White & VElocking Filter Air Purifying Econo Sould So	Statuto Weekly Imer Cooling Low Temp Cooling					
Group Control Optional Cytowal	Back Light Flare connection Flare Set Recall					

					Inverter Heat Pump
oor Ur	nit			MSZ-AP60VG(K)	MSZ-AP71VG(K)
door I	Unit			MUZ-AP60VG	MUZ-AP71VG
rigerar	nt			Sir	ngle: R32 ^(*1) / Multi: R32 ^(*1)
ver	Source			(Outdoor Power supply
	Unit Source Outdoor (V / Phase / Hz) Design load KW Annual electricity consumption ^(%) KW/a SEER ^(*) Energy efficiency class Capacity Rated KW Total Input Pated KW Declared Capacity Capac			230 / Single / 50	
poling C		,	kW	6.1	7.1
	Annual electricity	consumption (*2)	kWh/a	288	345
arting a construction of the second s		•	· · · ·	7.4	7.2
oling		Energy efficiency class	;	A++	A++
				6.1	7.1
1	Capacity	Min-Max	kW	1.4-7.3	2.0-8.7
	Total Input Rated		kW	1.590	2.010
Antiperson and a second			kW	4.6 (-10°C)	6.7 (-10°C)
toor Unit tidoor Unit frigerant pply Out pply Out series ating ating ating ating ating ating ating ating ating be cal ating be cal ating atin atin ating atin ating atin atin atin ating ating ating ating a		at reference design temperature		4.6 (-10°C)	6.7 (-10°C)
				4.6 (-10°C)	6.7 (-10°C)
	Capacity			3.7 (-15°C)	5.4 (-15°C)
Average Average (A				0.0 (-10°C)	0.0 (-10°C)
				1398	2126
			NVII/4	4.6	4.4
	0000	Energy efficiency class		4.0 A++	A+
				6.8	8.1
	Capacity			2.0-8.6	2.2-10.3
	Total Input			1.670	2.120
eratin		Hatoo		14.1	16.4
crating		Bated		0.049	0.045
				0.5	0.4
				325-1100-257	325-1100-257
loor it Solution		IT W D		16.0	17.0
		Cooling		9.4 - 11.0 - 13.2 - 16.0 - 18.9	9.6 - 11.5 - 13.2 - 15.3 - 18.6
	Air volume			10.8-13.4-15.4-17.4-20.3	10.2-11.5 - 13.2 - 15.3 - 19.2
				29 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 49
				30 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 51
		<u> </u>		65	65
	. ,			714-800-285	880-840-330
I				40	53
	weight	Cooling		52.1	63.7
I	Air Volume			52.1	57.7
		<u> </u>		52.1	56
t	Sound Level (SPL)			57	55
I	Sound Lough (DM/L)			69	69
I				13.6	16.0
l		nr (widX)		13.6	20
		1 :== ::=1/0===			
. '				6.35 / 12.7	6.35 / 12.7
				30	30
	Max.Height	Out-In	m	15	15
	ed Operating	Cooling Heating	°C °C	-10 ~ +46 -15 ~ +24	-10 ~ +46 -15 ~ +24

(1) Refrigerant laskage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with ligher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant thid 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 clicuit yourself or 625 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant clicuit yourself or 625 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant clicuit to (2) Energy consumption hased on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located. (3) SH: Super High (4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season". (5) Please see page 53-54 for heating (warmer season) specifications.



Stylish Line-up Matches Any Room Décor

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



Energy-efficient Operation

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

\sim	Outdoor	Rank A for single connection	Compatibility								
		MUZ-EF25/35VG(H)	MXZ								
Indoor	MUZ-EF42/50VG		2F33VF	2F42VF	2F53VF	3F54VF	3F68VF	4F72VF			
MSZ-EF	F18VG	-	~	\checkmark	~	\checkmark	\checkmark	~			
MSZ-EF	F22VG	-	~	\checkmark	~	~	~	~			
MSZ-EF	F25VG	A + + + / A++ (A++*)	~	~	~	~	~	~			
MSZ-EF	F35VG	A +++ / A++ (A+*)		~	~	~	~	~			
MSZ-EF	F42VG	A + + / A++			~	~	~	~			
MSZ-EF	F50VG	A + + / A+			~	\checkmark	~	~			

Quiet Comfort All Day Long

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

Superior Exterior and Operating Design Concept

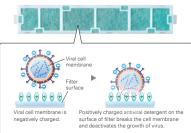
The indoor unit of the Kirigamine ZEN keeps its amazingly thin form even during operation. The only physical change notable is the movement of the variable vent. As a result, a slim attractive look is maintained.



V Blocking Filter

V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold

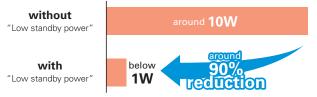
and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.





Low Standby Power

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



Outdoor Units for Cold Region

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

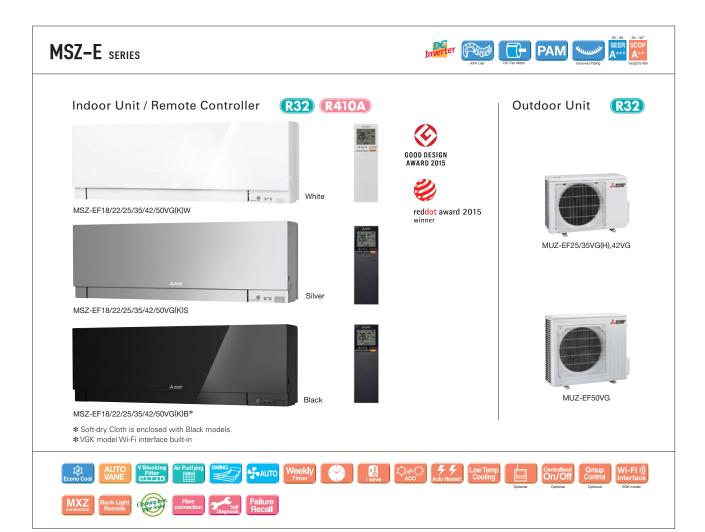




(25/35)

MUZ-EF25/35VG

MUZ-EF25/35VGH



Туре							Inverter H	eat Pump			
Indoor Ur	nit			MSZ-EF18VG(K)	MSZ-EF22VG(K)	MSZ-EF25VG(K)	MSZ-EF25VG(K)	MSZ-EF35VG(K)	MSZ-EF35VG(K)	MSZ-EF42VG(K)	MSZ-EF50VG(K)
Indoor Unit MSZ-EF18VG(K) MSZ-EF22VG(K) MSZ-EF25VG(K) MSZ-EF35VG(K) MSZ-EF35V					MUZ-EF42VG	MUZ-EF50VG					
Refrigera	nt			R32 ⁽¹⁾							
Power	Source						Outdoor Po	wer supply			
Supply	Outdoor (V / Ph	ase / Hz)					230/Si	ngle/50			
	Design load		kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0
	Annual electricity consumption (*2) k		kWh/a	-	-	96	96	139	139	186	233
	SEER (4)			-	-	9.1	9.1	8.8	8.8	7.9	7.5
Cooling		Energy efficiency class		-	-	A+++	A+++	A+++	A+++	A++	A++
	Consoitu	Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0
	Capacity	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-4.0	1.1-4.0	0.9-4.6	1.4-5.4
	Total Input	Rated	kW	-	-	0.540	0.540	0.910	0.910	1.200	1.540
	Design load	1	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
		at reference design temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
			kW	-	-				. ,	3.8 (-10°C)	4.2 (-10°C)
	Capacity	at operation limit temperature	kW	-	-	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)	3.4 (-15°C)	3.5 (-15°C)
Heating	Back up heating		kW	-	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
Average		Annual electricity consumption (*2) kWh/a			-	713	727	882	900	1151	1304
Season) ^(*5)	SCOP (*4)			-	-	4.7	4.6	4.6	4,5	4.6	4.5
		Energy efficiency class		-	-	A++	A++	A++	A+	A++	A+
		Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4	5.8
	Capacity	Min-Max	kW	-	-	1.0-4.2	1.0-4.2	1.3-5.1	1.3-5.1	1.3-6.3	1.4-7.5
	Total Input	Rated	kW	-	_	0.700	0.700	0.950	0.950	1.455	1.560
Oporatin	g Current (Max)	nateu	A	-	-	7.1	7.1	7.1	7.1	10.0	14
operatin	Input	Rated	kW	0.026	0.026	0.026	0.026	0.030	0.030	0.033	0.043
	Operating Curre		A	0.020	0.020	0.020	0.026	0.030	0.030	0.033	0.043
	Dimensions	H*W*D	mm	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195
		HWD									
Indoor	Weight	Oline	kg m ³ /min	11.5 4.0 - 4.6 - 6.3 - 8.3 - 10.5	11.5 4.0 - 4.6 - 6.3 - 8.3 - 10.5	11.5	11.5 4.0 - 4.6 - 6.3 - 8.3 - 10.5	11.5	11.5 4.0 - 4.6 - 6.3 - 8.3 - 10.5	11.5	11.5
Unit	Air Volume (SLo-Lo-Mid-Hi-SHi ^(*3))	Cooling						4.0 - 4.6 - 6.3 - 8.3 - 10.5			
	. ,	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	4.0 - 4.6 - 6.2 - 8.9 - 12.7		
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi ^(*3))	Cooling	dB(A)	19 - 23 - 29 - 36 - 42 21 - 24 - 29 - 37 - 45	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 21 - 24 - 30 - 38 - 46		30 - 33 - 36 - 40 - 4
		Heating	dB(A)				21 - 24 - 29 - 37 - 45				30 - 33 - 37 - 43 - 4
	Sound Level (PWL)	Cooling	dB(A)	60	60	60	60	60	60	60	60
	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285
	Weight		kg	-	-	31	31	34	34	35	40
	Air Volume	Cooling	m³/min	-	-	27.8	27.8	34.3	34.3	32.0	40.2
Outdoor		Heating	m³/min	-	-	29.8	29.8	32.7	32.7	32.7	40.2
Unit	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	62	65
	Operating Curre	nt (Max)	A	-	-	6.8	6.8	6.8	6.8	9.6	13.6
	Breaker Size		A	-	-	10	10	10	10	12	16
	Diameter	Liquid/Gas	mm	-	-	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
Ext. Piping	Max.Length	Out-In	m	-	-	20	20	20	20	20	30
ripilig	Max.Height	Out-In	m	-	-	12	12	12	12	12	15
Guarante	ed Operating	Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
	outdoor)	Heating	°C	i	i	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24

(1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that 11 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 KR2 is 675 in the IPCC 4th Assessment the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment the reproduct yourself or C4th Assessment the resonance of the structure reproduct yourself or C4th Assessment the reproduct yourself or C4th 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 53-54 for heating (warmer season) specifications.

FT VGHZ Single / Multi SERIES

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



MSZ-FT25/35/50VG(K)

Compact Design

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

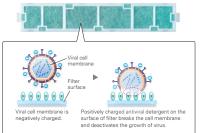


V Blocking Filter (Optional)

V Blocking Filter

V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold

and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



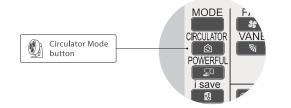
Remote Controller with Backlight

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



Circulator Mode

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





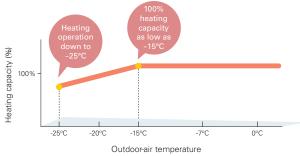
Built-in Wi-Fi

(MSZ-FT25/35/50VGK)

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

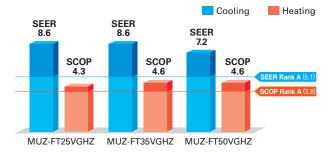
Hyper Heating

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



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-FT VGHZ simultaneously achieves high heating capacity and energy-saving performance.



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



Image is for illustration purposes

MSZ-FT VGHZ series	Inverter Core Have Do Fan Mary Do Gover Pary		
Indoor Unit	Outdoor Unit	Remote Controller	
MSZ-FT25/35/50VG(K)	MUZ-FT25VGHZ		
Econo Cool 4/4T Coy	kly	Group Optional Control Optional Optional Optional	
Wi-Fi J) Interface Vex.ory	Self Recall		

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

 Instruction
 Imaging
 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, the impact on global warming would be 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975. This means that if 1kg of this refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
 -26 ~ +24
 -26 ~ +24
 -25 ~ +24
 -25 ~ +24
 -26 ~ +24
 -26 ~ +24

 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 the off 41 SEB, 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) SEE, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season."

 (*5) Please see page 53-54 for heating (warmer season) specifications.

MSZ-BT SERIES

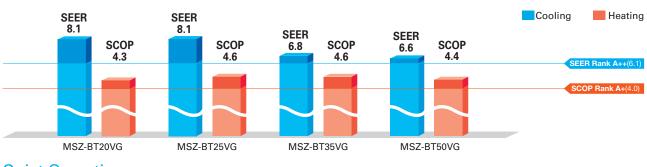
The BT series featured with its high performance, energy efficiency, and simplicity of use brings greater comfort to your room.

High Energy Efficiency for Entire Range of Series

Inverter A++ 20-50 25/35 SCOP A++ A++

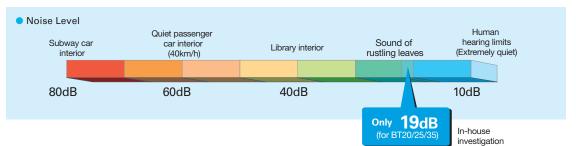
All models in the series, from the low-capacity 20 to the high-capacity 50, have achieved the "Rank A⁺⁺" for SEER and size 25 and 35 have achived the "Rank A⁺⁺" for SCOP as energy-savings rating. For home use, such as in bedrooms and living rooms, to light commercial use, such as in offices, our air conditioners are contributing to reduced energy consumption in a wide range.

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



Quiet Operation

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



New Remote Controller

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



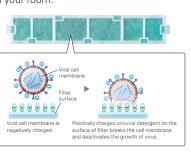
The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit.

Built-in Wi-Fi Interface (MSZ-BT20/25/35/50VGK)

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

V Blocking Filter

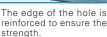
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



Back Plate with a Hole

With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.





MSZ-BT SERIES		Concert Parts Occore Parts
Indoor Unit R32	Outdoor Unit	Remote Controller
MSZ-BT20/25/35/50VG(K)	WIZ-BT2OVG MIZ-BT25/351 WIZ-BT2OVG MIZ-BT25/351 WIZ-BT2OVG MIZ-BT25/351	VG
Natural Econo Cool AUTO VElocking Fitter Ar Puttying SMMG Vinite VANE Fitter Econo Cool SMMG Night Image: Connection Fitter Econo Cool SMMG	Auto Restart Low Temp Cooling Optional	Vi-Fi)) Interface VOK ONY

Гуре				Inverter Heat Pump						
ndoor Ur	nit			MSZ-BT20VG(K)	MSZ-BT25VG(K)	MSZ-BT35VG(K)	MSZ-BT50VG(K)			
utdoor I	Unit			MUZ-BT20VG	MUZ-BT25VG	MUZ-BT35VG	MUZ-BT50VG			
efrigera	nt				F	32(1)				
ower	Source				Outdoor F	Power supply				
Supply Outdoor (V / Phase / Hz)					230V/S	ingle/50Hz				
	Design load		kW	2.0	2.5	3.5	5.0			
	Annual electricity	consumption (*2)	kWh/a	86	108	180	265			
	SEER (14)			8.1	8.1	6.8	6.6			
ooling		Energy efficiency class		A++	A++	A++	A++			
	Capacity	Rated	kW	2.0	2.5	3.5	5.0			
	Capacity	Min-Max	kW	0.5-2.9	0.5-3.0	0.9-3.5	1.3-5.0			
	Total Input	Rated	kW	0.450	0.700	1.240	2.050			
	Design load	·	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)			
		at reference design temperature	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)			
	Declared Capacity	at bivalent temperature	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)			
		at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-15°C)	3.4 (-15°C)			
ating	Back up heating	capacity	kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)			
erage	Annual electricity	consumption (*2)	kWh/a	487	577	727	1209			
ason) ^(*5)	SCOP (*4)			4.3	4.6	4.6	4.4			
		Energy efficiency class		A+	A++	A++	A+			
		Rated	kW	2.5	3.15	3.6	5.4			
	Capacity	Min-Max	kW	0.7-3.2	0.7-3.5	0.9-4.1	1.4-6.5			
	Total Input	Rated	kW	0.550	0.750	0.930	1.550			
peratin	g Current (Max)		A	5.6	7.0	7.0	10.0			
	Input	Rated	kW	0.024	0.024	0.031	0.037			
	Operating Current(Max)		A	0.25	0.25	0.31	0.35			
	Dimensions	H*W*D	mm	280-838-235	280-838-235	280-838-235	280-838-235			
	Weight	Veight		9	9	9	9			
door nit	Air Volume	Cooling	m ³ /min	4.2 - 5.2 - 6.8 - 8.7 - 10.9	4.2 - 5.2 - 6.8 - 8.7 - 10.9	4.2 - 5.2 - 6.8 - 8.7 - 13.2	6.3 - 7.6 - 9.0 - 11.0 - 13.2			
	(Lo-Mid-Hi-SHi ^(*3))	Heating	m ³ /min	4.2 - 5.0 - 6.8 - 9.0 - 11.9	4.2 - 5.0 - 6.8 - 9.0 - 11.9	4.2 - 5.0 - 6.8 - 9.0 - 11.9	6.0 - 7.8 - 9.9 - 11.9 - 14.1			
	Sound Level (SPL)	Cooling	dB(A)	19 - 22 - 30 - 37 - 43	19 - 22 - 30 - 37 - 43	19 - 22 - 31 - 38 - 46	29 - 33 - 36 - 40 - 46			
	(Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	20 - 23 - 30 - 37 - 43	20 - 23 - 30 - 37 - 43	20 - 23 - 30 - 37 - 44	29 - 33 - 38 - 43 - 48			
	Sound Level (PWL)	Cooling	dB(A)	57	57	60	60			
	Dimensions	H*W*D	mm	538-699-249	538-699-249	538-699-249	550-800-285			
	Weight		kg	23	24	24	35			
	Air Volume	Cooling	m³/min	30.3	32.2	32.2	30.4			
ıtdoor	Air Volume	Heating	m ³ /min	30.3	32.2	34.6	32.7			
it	Sound Level (SPL)	Cooling	dB(A)	50	50	52	50			
		Heating	dB(A)	50	50	52	51			
	Sound Level (PWL)	Cooling	dB(A)	63	63	64	64			
		Operating Current (Max) A		5.3	6.7	6.7	9.6			
	Breaker Size		A	10	10	10	12			
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7			
ct. ping	Max.Length	Out-In	m	20	20	20	20			
P.119	Max.Height	Out-In	m	12	12	12	12			
	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46			
ange (C	outdoor)	Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24			

(1) Refrigerant lakage contributes to climate change. Refrigerant with lower global warning potential (GWP) would contribute less to global warning than a refrigerant with higher GWP, if lacked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that 11 kg of this refrigerant fluid would be lacked to the atmosphere, the impact on global warning would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant clicuit yourself or GMP equal to 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant clicuit to CO₂ for the IPCC 4th Assessment Report. (2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located. (3) SH: Super High (4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season". (5) Please see page 53-54 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.

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

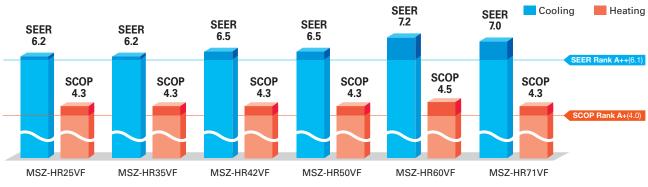


All models in the series, from capacity 25 to 71, have achieved the "Rank A⁺⁺" for SEER and "Rank A⁺" for SCOP as energy-savings rating, thanks to Mitsubishi Electric's inverter technologies which are adopted to provide automatic adjustment of operation load according to need.

R32

MSZ-HR25/35/42/50VF(K)

MSZ-HR60/71VF(K)



Simple and Friendly Design



Wi-Fi[®] and System Control

Wi-Fi Interface (Built-in) *Only VFK model

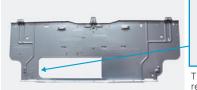
Built-in interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.

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-41MAA is possible.
- •Centralised control is possible when connected to M-NET.
- $^{\ast}\text{Wi-Fi}$ Interface and System Control Interface cannot be used simultaneously.

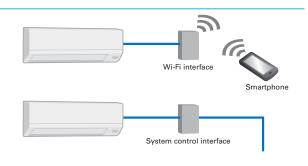
Back Plate with a Hole

With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.



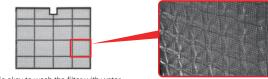


The edge of the hole is reinforced to ensure the strength.



Air Purifying Filter

This filter generates stable antibacterial and deodorising 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-HR series	Inverter	Jost Lup DC Fai Marrie	SEER SCOP A++ A+
Indoor Unit R32	Outdoor Unit		Remote Controller
Ame			
MSZ-HR25/35/42/50VF(K)	MUZ-HR25VF	MUZ-HR35VF	
MSZ-HR60/71VF(K)		WO2-11100/7191	
Natural Econo Cool AUTO White V Blocking Enter Const Ar Purifying Effer Const SWNG Filter Const SWNG Filter Const Filter Const Filter Const Filter Filter Const Filter Filter Const Filter Filter Const Filter Filter Const Filter Filter Const Filter Filter Const Filter Filter Const Filter Filter Const Filter Filter Const Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter Filter	Auto Restart Low Temp Cooling Course	On/On Control Interface	ZHA my

Туре				Inverter Heat Pump						
Indoor Ur	nit			MSZ-HR25VF(K)	MSZ-HR35VF(K)	MSZ-HR42VF(K)	MSZ-HR50VF(K)	MSZ-HR60VF(K)	MSZ-HR71VF(K)	
Outdoor	Unit			MUZ-HR25VF	MUZ-HR35VF	MUZ-HR42VF	MUZ-HR50VF	MUZ-HR60VF	MUZ-HR71VF	
Refrigera	nt				1	R3	2(*1)	1	1	
Power	Source					Outdoor Po	ower supply			
Supply	Outdoor (V / Ph	ase / Hz)				230V/Sir	igle/50Hz			
	Design load		kW	2.5	3.4	4.2	5.0	6.1	7.1	
	Annual electricity	consumption (*2)	kWh/a	141	191	226	269	296	355	
	SEER (*4)			6.2	6.2	6.5	6.5	7.2	7.0	
Cooling		Energy efficiency class	;	A++	A++	A++	A++	A++	A++	
	a	Rated	kW	2.5	3.4	4.2	5.0	6.1	7.1	
	Capacity	Min-Max	kW	0.5-2.9	0.9-3.4	1.1-4.6	1.3-5.0	1.7-7.1	1.8-7.3	
	Total Input	Rated	kW	0.800	1.210	1.340	2.050	1.810	2.330	
	Design load		kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)	
		at reference design temperature		1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)	
	Declared	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)	
	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)	
	Back up heating		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	
Heating (Average	Annual electricity		kWh/a	614	781	928	1224	1430	1755	
Season)(*5)	SCOP (*4)	consumption	KWII/d	4.3	4.3	4.3	4.3	4.5	4.3	
, ,	300F	Energy efficiency class		4.5 A+	4.5 A+	4.5 A+	4.5 A+	4.5 A+	4.5 A+	
		Rated	kW	3.15	3.6	4.7	5.4	6.8	8.1	
	Capacity	Min-Max	kW	0.7-3.5	0.9-3.7	0.9-5.4	1.4-6.5	1.5-8.5	1.5-9.0	
	Total Input	Rated	kW kW	0.7-3.5	0.9-3.7	1.300	1.550	1.810	2,440	
0	g Current (Max)	Raled	A	5.0	6.7	8.5	1.550	14.1	2.440	
Operatin	Input	Rated	kW	0.020	0.028	0.032	0.039	0.055	0.055	
				0.2	0.028	0.032	0.36	0.055	0.055	
	Operating Curre	H*W*D	A							
	Dimensions	H-W-D	mm	280-838-228	280-838-228	280-838-228	280-838-228	305-923-262	305-923-262	
Indoor	Weight	0 1	kg	8.5	8.5	9	9	12.5	12.5	
Unit	Air Volume (Lo-Mid-Hi-SHi ^(*3))	Cooling	m ³ /min	3.6 - 5.4 - 7.2 - 9.7	3.6 - 5.6 - 7.8 - 11.7	6.0 - 8.7 - 10.8 - 13.1	6.4 - 9.2 - 11.2 - 13.1	10.4 - 12.6 - 15.4 - 19.6	10.4 - 12.6 - 15.4 - 19.6	
	,	Heating	m ³ /min	3.3 - 5.4 - 7.4 - 10.1	3.3 - 5.4 - 7.4 - 10.5	5.6 - 7.9 - 10.8 - 13.4	6.1 - 8.3 - 11.2 - 14.5	10.7 - 13.1 - 16.7 - 19.6	10.7 - 13.1 - 16.7 - 19.0	
	Sound Level (SPL) (Lo-Mid-Hi-SHi ^("3))	Cooling	dB(A)	21 - 30 - 37 - 43	22 - 31 - 38 - 46	24 - 34 - 39 - 45	28 - 36 - 40 - 45	33 - 38 - 44 - 50	33 - 38 - 44 - 50	
	1	Heating	dB(A)	21 - 30 - 37 - 43	21 - 30 - 37 - 44	24 - 32 - 40 - 46	27 - 34 - 41 - 47	33 - 38 - 44 - 50	33 - 38 - 44 - 50	
	Sound Level (PWL)	Cooling	dB(A)	57	60	60	60	65	65	
	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	550-800-285	714-800-285	714-800-285	
	Weight	Ozzlizz	kg	23	22	32.5	34	40	40	
	Air Volume	Cooling	m ³ /min	30.3	32.2	30.4	30.4	42.8	42.8	
Outdoor		Heating	m ³ /min	30.3	32.2	32.7	32.7	48.3	48.3	
Unit	Sound Level (SPL)	Cooling	dB(A)	50	51	50	50	53	53	
		Heating	dB(A)	50	51	51	51	57	57	
	Sound Level (PWL)	Cooling	dB(A)	63	64	64	64	65	66	
	Operating Curre	ent (Max)	A	4.8	6.4	8.2	9.6	13.6	13.6	
	Breaker Size		A	10	10	10	12	16	16	
Ext.	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7	
Piping	Max.Length	Out-In	m	20	20	20	20	30	30	
	Max.Height	Out-In	m	12	12	12	12	15	15	
	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
Range (C	Jutdoor)	Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	

(1) Refrigerant laskage contributes to climate change. Refrigerant with lower global warning potential (GWP) would contribute less to global warning the networks to climate change. Refrigerant with lower global warning optential (GWP) would contribute less to global warning the networks to climate change. Refrigerant fluid would be lasked to the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant fluid would be for the atmosphere. This appliance contains a refrigerant circuit (2) for end contains and adways as at professional. The GWP of H32 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 53-54 for heating (warmer season) specifications.

MSZ-DW25/35/50VF

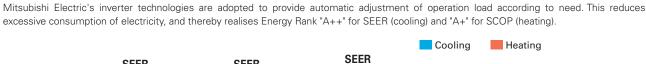
R32

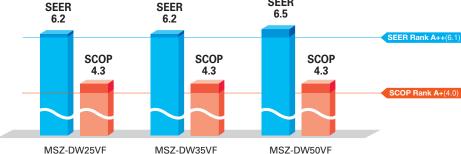
MSZ-DW SERIES

Introducing an indoor unit that is compact yet packed with a variety of features.

High energy saving performance and Air Purifying Filter bring you a comfortable indoor environment.

Energy Saving





Simple and Compact Design

The stylish design makes it a natural match for any room. The width of indoor units is compact, making installation in smaller, tighter spaces possible.



Air Purifying Filter



Air Purifying Filter generates stable antibacterial, antifungal, and deodorant effects. The three-dimensional surface expands the filter's capture area and contributes to the better dust collection performance than conventional filters.



Simple Control

The simple remote controller and functions provide the easy control solution and comforts of life.



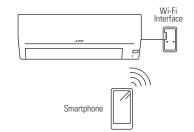
Wi-Fi and System Control

Wi-Fi Interface (Optional)

Optional interface and a Cloud-based solution "MELCloud" enable users to control air conditioners and check operating status via devices such as laptops, 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-41MAA is possible.
- Centralised control is possible when connected to M-NET.







MSZ-DW series	Inverter File	CC Fair Moor
Indoor Unit R32	Outdoor Unit	Remote Controller
MSZ-DW25/35/50VF	MUZ-DW25VF MUZ-	DW35VF
	MUZ-DW50VF	
Econo Cool Natural AUTO V Blocking Hiter White VANE Coros	Auto Restart Low Temp Cooling Cooling Optional Control Cooling Optional Control Cooling Optional Control Contr	Group Control Optional Optional Optional Optional
Flare Connection		

Туре	уре				Inverter Heat Pump		
Indoor Ur	nit			MSZ-DW25VF	MSZ-DW35VF	MSZ-DW50VF	
Outdoor I	Unit			MUZ-DW25VF	MUZ-DW35VF	MUZ-DW50VF	
Refrigera	nt			R32 ^(*1)			
Power	Source				Outdoor Power supply		
Supply					230V/Single/50Hz		
	Design load		kW	2.5	3.4	5.0	
	Annual electricity	consumption ("2)	kWh/a	135	184	261	
	SEER (14)			6.2	6.2	6.5	
ooling		Energy efficiency class	s	A++	A++	A++	
	Capacity	Rated	kW	2.5	3.4	5.0	
	Capacity	Min-Max	kW	0.5-2.9	0.9-3.4	1.3-5.0	
	Total Input	Rated	kW	0.800	1.210	2.050	
	Design load		kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	
		at reference design temperature	e kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	
	Declared Capacity	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	
	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)	
eating	Back up heating		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	
verage	Annual electricity	consumption (*2)	kWh/a	618	781	1174	
ason)(*5)	SCOP (*4)			4.3	4.3	4.3	
		Energy efficiency class		A+	A+	A+	
		Rated	kW	3.15	3.6	5.4	
		Min-Max	kW	0.7-3.5	0.9-3.7	1.4-6.5	
	Total Input	Rated	kW	0.850	0.975	1.550	
peratin	g Current (Max)		A	5.0	6.7	10.0	
	Input	Rated	kW	0.023	0.028	0.029	
	Operating Current(Max)		A	0.24	0.28	0.29	
	Dimensions	H*W*D	mm	290-799-232	290-799-232	290-799-232	
	Weight	Weight		9	9	10	
door 1it	Air Volume	Cooling	m³/min	3.6 - 5.6 - 7.5 - 9.9	3.6 - 5.8 - 8.1 - 11.3	5.9 - 7.7 - 9.7 - 12.3	
	(Lo-Mid-Hi-SHi ^(*3))	Heating	m³/min	3.4 - 5.6 - 7.7 - 10.3	3.4 - 5.6 - 7.7 - 10.7	6.0 - 7.7 - 9.7 - 12.6	
	Sound Level (SPL)	Cooling	dB(A)	21 - 30 - 37 - 43	22 - 31 - 38 - 46	28 - 36 - 40 - 45	
	(Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)	21 - 30 - 37 - 43	21 - 30 - 37 - 44	27 - 34 - 41 - 47	
	Sound Level (PWL)	Cooling	dB(A)	57	60	60	
	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	
	Weight		kg	23	24	35	
	Air Volume	Cooling	m³/min	30.3	32.2	33.5	
utdoor	All Volume	Heating	m³/min	30.3	32.2	32.7	
nit	Sound Level (SPL)	Cooling	dB(A)	50	51	50	
	. ,	Heating	dB(A)	50	51	51	
	Sound Level (PWL)	Cooling	dB(A)	63	64	64	
			A	5.3	7.0	9.2	
	Breaker Size		A	10	10	12	
ct.	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	
xt. iping	Max.Length	Out-In	m	20	20	20	
	Max.Height	Out-In	m	12	12	12	
	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	
Range (C	utdoor)	Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	

(*) Refrigerant leakage contributes to climate change. Refrigerant with lower global warning potential (GWP) would contribute less to global warning than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid with the atmosphere, the impact on global warning 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 R28 is 676 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 53-54 for heating (warmer season') specifications.

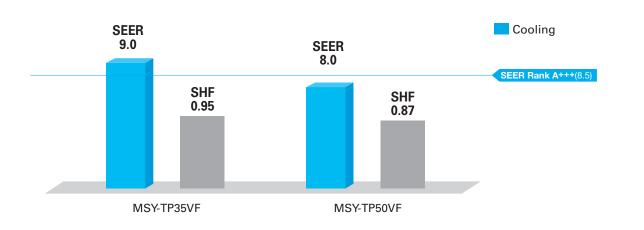


MSY-TP35/50VF

R32

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

High Energy-Saving Performance with High SHF



Wide Cooling Operating Range

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

• Operating Range (Cooling)	
MUY-TP -25°C	+46°C

MSY-TP series	Inverter Contained Do Fan Mater PAM			
Indoor Unit R32	Outdoor Unit R32	Remote Controller		
And	MUY-TP35/TP50VF	• Wired remote controller can be connected to indoor unit. MAC-334IFE MAC-497IFE Indoor unit PAR-41MAA PAC-YT52CRA		
Pure Nite Silver-ion SWING SAUTO	Fire Set Failure Recall			

Туре	•	•		Inverter H	leat Pump			
Indoor Ur	nit			MSY-TP35VF	MSY-TP50VF			
Outdoor I	Jnit			MUY-TP35VF	MUY-TP50VF			
Refrigerar	nt			R32 ⁽¹⁾				
Power	Source			Indoor Pov	wer supply			
Supply	Outdoor (V / Ph	ase / Hz)		230V / Sin				
	Design load		kW	3.5	5.0			
	Annual electricity	consumption (*2)	kWh/a	136	218			
	SEER (14)	•		9.0	8.0			
Cooling		Energy efficiency class		A+++	A++			
		Rated	kW	3.5	5.0			
	Capacity	Min-Max	kW	1.5 - 4.0	1.5 - 5.7			
	Total Input	Rated	kW	0.760	1.450			
	Design load	1	kW	-	-			
		at reference design temperature	kW	-	-			
	Declared Capacity	at bivalent temperature	kW	-	-			
	Capacity	at operation limit temperature	kW	-	-			
Heating	Back up heating		kW	-	-			
(Average	Annual electricity	consumption (*2)	kWh/a	-	-			
Season)(*5)	SCOP (*4)			-	-			
		Energy efficiency class		-	-			
	O itu	Rated	kW	-	-			
	Capacity	Min-Max	kW	-	-			
	Total Input Rated		kW	-	-			
Operating	g Current (Max)	·	A	9.6	9.6			
	Input	Rated	kW	0.033	0.034			
	Operating Current (Max)		A	0.4	0.4			
	Dimensions	H*W*D	mm	305-923-250	305-923-250			
	Weight		kg	12.5	12.5			
Indoor	Air Volume	Cooling	m³/min	10.1 - 11.6 - 13.7 - 16.4	10.1 - 11.6 - 13.7 - 16.4			
Unit	(Lo-Mid-Hi-SHi ^(*3))	Heating	m³/min	-	-			
	Sound Level (SPL)	Cooling	dB(A)	31 - 36 - 40 - 45	31 - 36 - 40 - 45			
	(Lo-Mid-Hi-SHi ^(*3))	Heating	dB(A)		-			
	Sound Level (PWL)	Cooling	dB(A)	60	60			
	Breaker Size		A	10	10			
	Dimensions	H*W*D	mm	550-800-285	550-800-285			
	Weight		kg	34	34			
	Air Volume	Cooling	m ³ /min	29.3	29.3			
Outdoor	All Volume	Heating	m³/min	-	-			
Unit	Sound Level (SPL)	Cooling	dB(A)	45	47			
	. ,	Heating	dB(A)	-	-			
			dB(A)	58	61			
	Operating Curre		A	9.2	9.2			
Ext.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52			
Piping	Max.Length	Out-In	m	20	20			
	Max.Height	Out-In	m	12	12			
	ed Operating	Cooling	°C	-25 ~ +46	-25 ~ +46			
Range (O	outdoor)	Heating	°C	-	-			

(11) Retrigerant leakage contributes to climate change. Retrigerant with lower global warming potential (GWP) would contribute less to global warming than a retrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a retrigerant fluid with a GWP equal to 550. This means that if 1 kg of this retrigerant 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 IPCO 4th Assessment Report.
 (2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
 (3) SH: Super High
 (4) SEER and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011.

MFZ SERIES

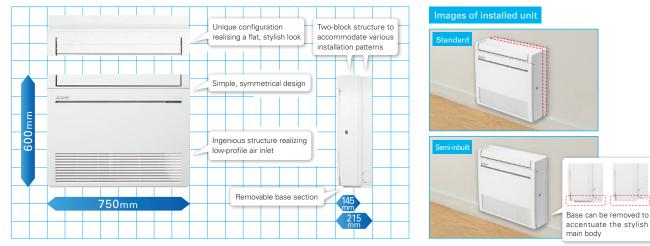
High Capacity, Energy Savings and a Design in Harmony with Living Spaces Raise the Value of Your Room to the Next Level.

Simple, Flat Design

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

MFZ-KT25/35/50/60VG

R32



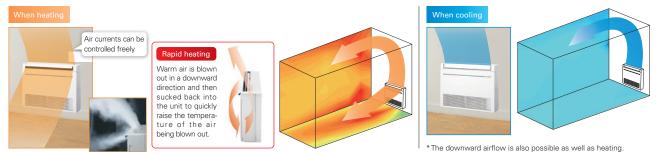
New Line-up

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

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

Multi-flow Vane

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



WeeklyTimer (Introduced in response to market demand)

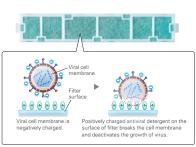
Temperature settings and On/Off control can be managed over a period of one week using the Weekly Timer. Up to eight setting patterns per calendar day are possible.

V Blocking Filter

V Blocking Filter

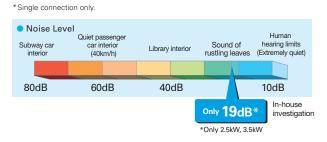
V Blocking Filter with antiviral effect inhibits 99% of adhered

virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



Quiet Operation

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



MFZ-KT series	Invert	
Indoor Unit R32	Outdoor Unit R32	Remote Controller
	SUZ-M25/35VA SUZ-M50VA	Enclosed in *optional
MFZ-KT25/35/50/60VG	SUZ-M60VA	*optional
Image: Strategy of the strategy		Cooling Control Cooling Corow

Туре					Inverter H	leat Pump					
Indoor Un	it			MFZ-KT25VG	MFZ-KT35VG	MFZ-KT50VG	MFZ-KT60VG				
Outdoor L	Jnit			SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA				
Refrigerar	nt			B32 ^(*1)	B32(*1)	B32 ^(*1)	B32(*1)				
Power	Source				Outdoor po	wer supply					
Supply	Outdoor(V/Phase/Hz)			230 / Single / 50							
	Design load		kW	2.5	3.5	5.0	6.1				
	Annual electricity consum	ption (*2)	kWh/a	134	185	257	343				
	SEER (*4), (*5)			6.5	6.6	6.8	6.2				
Cooling		Energy efficiency class		A++	A++	A++	A++				
	Capacity	Rated	kW	2.5	3.5	5.0	6.1				
		Min-Max	kW	1.6 - 3.2	0.9 - 3.9	1.2 - 5.6	1.7 - 6.3				
	Total Input	Rated	kW	0.62	1.06	1.55	1.84				
	Design load	•	kW	2.2	2.6	4.3	4.6				
	Declared Capacity	at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.5 (-10°C)	4.1 (-10°C)				
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.9 (-7°C)	4.1 (-7°C)				
		at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.5 (-10°C)	4.1 (-10°C)				
leating	Back up heating capacity		kW	0.2	0.3	0.8 1423	0.5				
Average	Annual electricity consum	ption ^(*2)	kWh/a	732	825		1568				
Season)	SCOP (*4), (*5)			4.2	4.4	4.2	4.1				
		Energy efficiency class		A+	A+	A+	A ⁺				
	Capacity	Rated	kW	3.4	4.3	6.0	7.0				
		Min-Max	kW	1.3 - 4.2	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0				
	Total Input Rated		kW	0.91	1.26	1.86	2.18				
perating	g Current (Max)		A	7.0	8.7	14.0	15.4				
	Input	nput Rated		0.020 / 0.024	0.020 / 0.024	0.037 / 0.052	0.063 / 0.059				
	Operating Current(Max)	Dperating Current(Max)		0.20	0.20 0.45		0.55				
	Dimensions	H*W*D	mm	600-750-215	600-750-215	600-750-215	600-750-215				
ndoor	Weight		kg	14.5	14.5	14.5	15.0				
naoor Jnit	Air Volume	Cooling	m³/min	3.9 - 4.8 - 6.5 - 7.8 - 8.9	3.9 - 4.8 - 6.5 - 7.8 - 8.9	5.6 - 6.7 - 8.6 - 10.4 - 12.3	5.6 - 8.0 - 9.6 - 12.3 - 15.0				
	(SLo-Lo-Mid-Hi-SHi ^(*3))	Heating	m³/min	3.5 - 4.0 - 5.6 - 7.3 - 9.7	3.5 - 4.0 - 5.6 - 7.3 - 9.7	6.0 - 7.7 - 9.4 - 11.6 - 14.0	6.0 - 7.7 - 9.7 - 12.5 - 14.6				
	Sound Level (SPL)	Cooling	dB(A)	19 - 24 - 31 - 37 - 41	19 - 24 - 31 - 37 - 41	28 - 32 - 37 - 42 - 48	28 - 36 - 40 - 46 - 53				
	(SLo-Lo-Mid-Hi-SHi ^('3))	Heating	dB(A)	19 - 23 - 30 - 37 - 44	19 - 23 - 30 - 37 - 44	29 - 35 - 40 - 44 - 49	29 - 35 - 41 - 47 - 51				
	Sound Level (PWL)	Cooling	dB(A)	54	54	60	65				
	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	880-840-300				
	Weight		kg	30	35	41	54				
	Air Volume	Cooling	m³/min	36.3	34.3	45.8	50.1				
Outdoor		Heating	m³/min	34.6	32.7	43.7	50.1				
Init	Sound Level (SPL)	Cooling	dB(A)	45	48	48	49				
		Heating	dB(A)	46	48	49	51				
	Sound Level (PWL)	Cooling	dB(A)	59	59	64	65				
	Operating Current(Max)		A	7	9	14	15				
	Breaker Size			10	10	16	16				
xt.	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88				
Piping	Max.Length	Out-In	m	20	20	30	30				
ihiiið	Max.Height	Out-In	m	12	12	30	30				
Guaranteed Operating Range Cooling			°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46				
[Outdoor]		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24				

In Control of 10 are 124
In the integrant taskage contributes to climate transp. Refrigerant with lower global warning potential (GWP) would control task to global warning potential (GWP) would control tasks to global warning tasks to the atmosphere. This appliance contrains a refrigerant task owner the impact on global warning would be 1975 times higher than 1 kg of this refrigerant task owner by to interfere with the refrigerant circuit yourself or product yourself or and aways ask a professional.
The GWP of P410A is 2088 in the IPCC 4th Assessment Report.
('3) EFH: Scoper High
('3) EFH: Scoper High
('3) EFH: Scoper High
('4) SEEH, ScoP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011.
The temperature conditions for calculating SCOP are based on "Average Season".
('5) SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No.026/2012.

MFZ-KW series		Inverter DC Fan Moor
Indoor Unit	Outdoor Unit	Remote Controller
Single	BOOD DESIGN WARD 2014 MUFZ-KW25/35VC MUFZ-KW50/60VC	
Econo Cool White Vane Silver-ion V Block Fite	ing Air Purifying SMNG SAUTO Weekly	Isave Image: Second
MINET connection Optional Connection Connection Connection Connection Connection	ion Failure Recall	upun un Ciptona

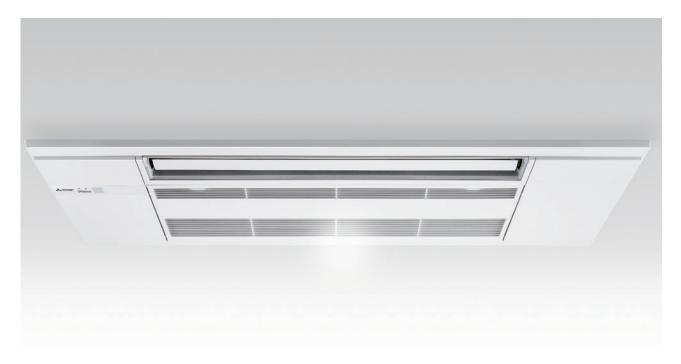
Туре		_				Inverter I	leat Pump				
Indoor Un	iit				MFZ-KW25VG	MFZ-KW35VG	MFZ-KW50VG	MFZ-KW60VG			
Outdoor l	Jnit				MUFZ-KW25VGHZ	MUFZ-KW35VGHZ	MUFZ-KW50VGHZ	MUFZ-KW60VGHZ			
Refrigerar	nt					R3	2 (*1)				
Power	Source					Outdoor p	ower supply				
Supply	Outdoor (V/Phase/H	lz)			230 / Single / 50						
Cooling	Design Load			kW	2.5	3.5	5.0	6.1			
	Annual Electricity Co	onsumpti	on (*2)	kWh/a	103	151	255	316			
	SEER (*4)				8.5	8.1	6.8	6.7			
		Energy	Efficiency Class		A+++	A++	A++	A++			
	Capacity	Rated		kW	2.5	3.5	5.0	6.1			
		Min - M	ax	kW	0.7 - 3.6	0.7 - 4.3	1.0 - 5.8	1.0 - 6.5			
	Total Input	Total Input Rated			0.57	0.90	1.36	1.73			
leating	Design Load			kW	3.5	3.6	4.5	4.8			
Average	Declared Capacity	at refere	ence design temperature	kW	3.5 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	4.8 (-10°C)			
Season)		at bivale	ent temperature	kW	3.5 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	4.8 (-10°C)			
		at opera	ation limit temperature	kW	2.6 (-25°C)	2.6 (-25°C)	4.0 (-25°C)	4.0 (-25°C)			
	Back Up Heating Ca	pacity		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)			
	Annual Electricity Co	onsumpti	on (*2)	kWh/a	1188	1211	1500	1624			
	SCOP (* 4)				4.1	4.1	4.2	4.1			
		Energy	Efficiency Class		A+	A+	A+	A+			
	Capacity	Rated		kW	3.4	4.3	6.0	6.5			
		Min - M	ax	kW	0.2 - 5.1	0.2 - 6.0	1.2 - 8.4	1.2 - 9.0			
	Total Input	Rated		kW	0.83	1.21	1.60	1.88			
Operating	g Current (max)			А	9.9	10.3	15.3	15.4			
ndoor	Input (Cooling/Heati	ing)	Rated	kW	0.019/0.025	0.019/0.025	0.026/0.052	0.063/0.059			
Jnit	Operating Current (n	nax)		A	0.22	0.22	0.47	0.55			
	Dimensions		$H \times W \times D$	mm	600 - 750 - 215						
	Weight			kg	15	15	15	15			
	Air Volume		Cooling	m ³ /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	5.6 - 8.0 - 9.6 - 12.3 - 15.0			
	(SLo-Lo-Mid-Hi-SHi ^(*)	3)	Heating	m³/min	3.5 - 5.1 - 6.2 - 7.7 - 9.7	3.5 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0	6.0 - 7.7 - 9.7 - 12.5 - 14.6			
	Sound Level (SPL)		Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44	27 - 35 - 39 - 46 - 53			
	(SLo-Lo-Mid-Hi-SHi (*:	3)	Heating	dB(A)	18 - 25 - 30 - 35 - 41 18 - 25 - 30 - 35 - 41		29 - 35 - 40 - 45 - 50	29 - 35 - 41 - 47 - 51			
	Sound Level (PWL)			dB(A)	49	50	56	65			
	Dimensions		$H \times W \times D$	mm	550 - 8	00 - 285	880 - 8	40 - 330			
Jnit	Weight			kg	35	35	54	54			
	Air Volume		Cooling	m³/min	32.7	32.7	43.8	48.8			
			Heating	m ³ /min	27.3	27.3	46.3	51.3			
	Sound Level (SPL)		Cooling	dB(A)	47	47	50	52			
			Heating	dB(A)	46	47	54	56			
	Sound Level (PWL)	Level (PWL) Cooling		dB(A)	61	61	65	66			
	Operating Current (n	nax)		А	9.6	10.0	14.8	14.8			
	Breaker Size			А	10	12	16	16			
xt.	Diameter		Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7			
Piping	Max. Length		Out-In	m	20	20	30	30			
	Max. Height		Out-In	m	12	12	15	15			
	ed Operating Range		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46			
[Outdoor]			Heating	°C	-25 ~ +24	-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. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 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".



Slim Design 🛛 🖤

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



Ceiling Mounted KY KP

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.



V Blocking Filter

V Blocking Filter with antiviral effect inhibits 99% of adhered virus and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.

Viral cell membrane Filter surface	►					
Viral cell membrane is negatively charged.	Positively charged antiviral detergent on the surface of filter breaks the cell membrane and deactivates the growth of virus.					

Set Airflow According to Ceiling Height **KV KP**

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.

	20	25	35	50
Standard	2.4m	2.4m	2.4m	2.4m
High ceiling	2.7m	2.7m	2.7m	2.7m

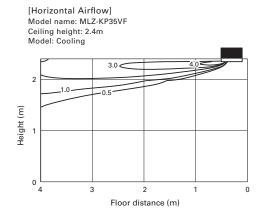
Auto Vane Control **KY KP**

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



Horizontal Airflow **KY KP**

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



Built-in Weekly Timer Function 🛛 🛯 🖤 🖤

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

Example Operation Pattern (Winter/Heating mode)

	M	on.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.		
6:00	ON	20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C		
				Automatically change	s to high-power opera	tion at wake-up time				
8:00										
10:00										
12:00	C)FF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C		
			Automatic	ally turned off during w	ork hours		Midday is warmer, so the temperature is set lower			
14:00	L									
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 turn	ns on, synchronized wit	h arrival at home		Automatically raises ten match time when outsic	nperature setting to le-air temperature is low		
00:55		L					L			
(during sleeping hours)	ON	18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 10°C	ON 10°C		
	[Automa	tically lowers tempera	ture at bedtime for ene	ergy-saving operation a	t night			

Settings Pattern Settings: Input up to four settings for each day

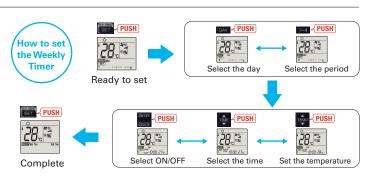
Settings: •Start/Stop operation •Temperature setting *The operation mode cannot be set.

Easy set-up using dedicated buttons -



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





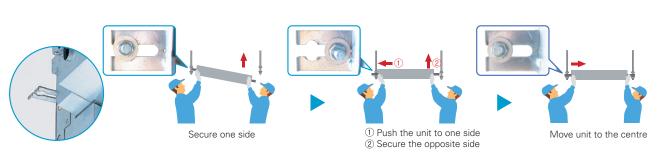
 Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired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

50

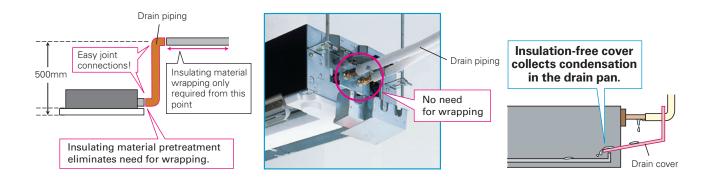
Easy Installation

Temporary hanging hook **KY KP**

Work efficiency has improved during installation.



Refrigerant Piping Supporters + Drain Cover **KY KP**

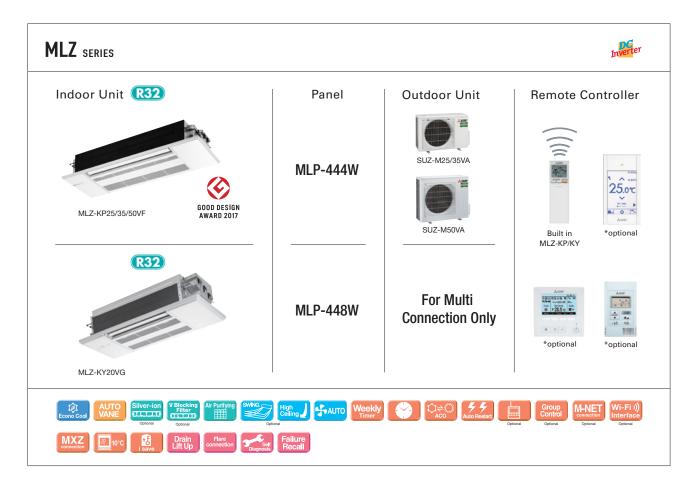


High Serviceability **KY KP**

No need to put off the panel even when the unit has some troubles to be checked inside. Simply open the panel to see the inside of the unit.



* This image is for MLZ-KY



Туре					Inverte	er Heat Pump	
Indoor Un	it			MLZ-KY20VG	MLZ-KP25VF	MLZ-KP35VF	MLZ-KP50VF
Outdoor L	Jnit			For Multi connection only	SUZ-M25VA	SUZ-M35VA	SUZ-M50VA
Refrigerar	it			, , , , , , , , , , , , , , , , , , , ,		R32 ^(*1)	
Power	Source				Outdoor	r Power supply	
Supply	Outdoor (V / Ph	ase / Hz)			230 /	/ Single / 50	
	Design load		kW	-	2.5	3.5	5.0
	Annual electricity	consumption (*2)	kWh/a	-	141	175	260
	SEER (*4), (*5)			-	6.2	7.0	6.7
Cooling		Energy efficiency class		-	A++	A++	A++
	Capacity	Rated	kW	-	2.5	3.5	5.0
	Capacity	Min-Max	kW	-	1.4 - 3.2	0.8 - 3.9	1.7 - 5.6
	Total Input	Rated	kW	-	0.59	0.94	1.38
	Design load		kW	-	2.2	2.6	4.3
	Declared	at reference design temperature		-	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)
	Capacity	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)
Heating	Back up heating		kW	-	0.2	0.3	0.5
(Average	Annual electricity consumption (*2)			-	697	791	1397
Season)	SCOP (*4), (*5)			-	4.4	4.6	4.3
		Energy efficiency class		-	A+	A++	A+
	Capacity	Rated	kW	-	3.2	4.1	6.0
	Capacity	Min-Max	kW	-	1.4 - 4.2	1.1 - 4.9	1.7 - 7.2
	Total Input	Rated	kW	-	0.80	1.10	1.86
Operating	g Current (Max)		A	-	7.2	8.9	13.9
	Input	Rated	kW	0.012	0.04	0.04	0.04
	Operating Curre	nt(Max)	A	0.12	0.40	0.40	0.40
	Dimensions	ons H*W*D		194-842-301	185-1102-360	185-1102-360	185-1102-360
Indoor	Weight	eight		14	15.5	15.5	15.5
Unit	Air Volume			4.3-4.7-5.2-5.6	6.0-7.2-8.0-8.8	6.0-7.3-8.4-9.4	6.0-8.3-9.8-11.4
	(SLo-Lo-Mid-Hi ^(*3))	Heating	m³/min	4.3-4.9-5.5-6.0	6.0-7.0-8.2-9.2	6.0-7.7-8.8-9.9	6.0-8.8-10.3-11.8
	Sound Level (SPL)	Cooling	dB(A)	30-32-34-37	27-31-34-38	27-32-36-40	29-36-41-47
	(SLo-Lo-Mid-Hi ^(*3))	Heating	dB(A)	29-32-35-58	29-27-34-37	26-32-36-40	26-37-42-48
	Sound Level (PWL)	Cooling	dB(A)	40-42-44-50	52	53	59
Panel	Dimensions	H*W*D	mm	34-915-370	24-1200-424	24-1200-424	24-1200-424
- 41101	Weight		kg	3.8	3.5	3.5	3.5
	Dimensions	H*W*D	mm	-	550-800-285	550-800-285	714-800-285
	Weight	1	kg	-	30	35	41
	Air Volume	Cooling	m³/min	-	36.3	34.3	45.8
Outdoor		Heating	m³/min	-	34.6	32.7	43.7
Unit	Sound Level (SPL)	Cooling	dB(A)	-	45	48	48
	. ,	Heating	dB(A)	-	46	48	49
	Sound Level (PWL)		dB(A)	-	59	59	64
	Operating Curre	ent (Max)	A	-	6.8	8.5	13.5
	Breaker Size		A	-	10	10	20
Ext.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
Piping	Max.Length	Out-In	m	-	20	20	30
	Max.Height	Out-In	m	-	12	12	30
	ed Operating	Cooling	°C	-	-10~+46	-10~+46	-15~+46
Range (O	utdoor)	Heating	°C	-	-10~+24	-10~+24	-10~+24

Specification on Warmer/Colder Condition

Туре				Inverter Heat Pump					
Indoor Ur	nit			MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG			
Outdoor I	Unit			MUZ-RW25VGHZ	VGHZ MUZ-RW35VGHZ MUZ-F				
Refrigera	nt				R32 (*3)				
	Design load		kW	2.5	3.5	5.0			
Cooling	Annual electricity	consumption (*2)	kWh/a	78	130	230			
	SEER			11.2	9.4	7.6			
		Energy efficiency class		A+++	A+++	A++			
	Design load		kW	1.8	2.2	3.3			
		at reference design temperature	kW	1.8	2.2	3.3			
	Declared Capacity	at bivalent temperature	kW	1.8	2.2	3.3			
Heating (Warmer	Capacity	at operation limit temperature	kW	2.6	2.6	4.0			
Season)	Back up heating		kW	0.0	0.0	0.0			
,	Annual electricity	consumption (*2)	kWh/a	372	469	715			
	SCOP			6.7	6.5	6.4			
		Energy efficiency class		A+++	A+++	A+++			
	Design load		kW	4.7	5.9	8.8			
		at reference design temperature	kW	3.7	4.0	5.6			
	Declared Capacity	at bivalent temperature	kW	3.2	4.0	6.0			
Heating (Colder	oupdoity	at operation limit temperature	kW	2.6	2.6	4.0			
Season)	Back up heating	capacity	kW	1.0	1.9	3.2			
2220011	Annual electricity	consumption (*2)	kWh/a	2407	3083	5157			
	SCOP			4.1	4.0	3.5			
		Energy efficiency class		A+	A+	A			

Туре							Inverter Heat Pump			
Indoor Ur	nit			MSZ-LI	V25VG2	MSZ-LI	V35VG2	MSZ-L	N50VG2	MSZ-LN60VG2
Outdoor I	Jnit			MUZ-LN25VG2	MUZ-LN25VGHZ2	MUZ-LN35VG2	MUZ-LN35VGHZ2	MUZ-LN50VG2	MUZ-LN50VGHZ	MUZ-LN60VG
Refrigera	nt						R32 ^(*3)			
	Design load		kW	2.5	2.5	3.5	3.5	5	5.0	6.1
Cooling	Annual electricity consumption (*2) kWh/a			83	83	129	130	205	230	285
cooming	SEER			10.5	10.5	9.5	9.4	8.5	7.6	7.5
	Energy efficiency class			A+++	A+++	A+++	A+++	A+++	A++	A++
	Design load		kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)	3.3 (2°C)
	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)	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)	3.3 (2°C)
Heating (Warmer		at operation limit temperature	kW	2.5 (-15°C)	2.3 (-25°C)	3.2 (-15°C)	3.1 (-25°C)	4.2 (-15°C)	4.7 (-25°C)	6.0 (-15°C)
(warmer Season)	Back up heating capacity kW			0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0(2°C)	0.0 (2°C)
0000011	Annual electricity	consumption (*2)	kWh/a	369	382	431	467	602	779	779
	SCOP			6.4	6.6	6.5	6.5	5.8	5.9	5.9
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Design load		kW	-	4.7 (-22°C)	-	5.9 (-22°C)	-	8.8 (-22°C)	-
		at reference design temperature	kW	-	2.6 (-22°C)	-	3.4 (-22°C)	-	5.1 (-22°C)	-
	Declared Capacity	at bivalent temperature	kW	-	3.2 (-10°C)	-	4.0 (-10°C)	-	6.0 (-10°C)	-
Heating (Colder	oupdoity	at operation limit temperature	kW	-	2.3 (-25°C)	-	3.1 (-25°C)	-	4.7 (-25°C)	-
(Colder Season)	Back up heating		kW	-	2.1 (-22°C)	-	2.5 (-22°C)	-	3.7 (-22°C)	-
2210011)	Annual electricity	consumption (*2)	kWh/a	-	2425	-	3075	-	5340	-
	SCOP			-	4.0	-	4.0	-	3.4	-
		Energy efficiency class		-	A+	-	A+	-	A	-

Туре					Inverter Heat Pump			
Indoor Ur	nit			MSZ-FT25VG	MSZ-FT35VG	MSZ-FT50VG		
Outdoor I	Unit			MUZ-FT25VGHZ	MUZ-FT25VGHZ MUZ-FT35VGHZ MUZ-F			
Refrigera	nt				R32 (*3)			
	Design load		kW	2.5	3.5	5.0		
Cooling	Annual electricity	consumption ("2)	kWh/a	101	142	243		
	SEER			8.6	8.6	7.2		
		Energy efficiency class		A+++	A+++	A++		
	Design load		kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)		
		at reference design temperature	kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)		
	Declared Capacity	at bivalent temperature	kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)		
Heating (Warmer	Capacity	at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)		
(warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)		
0000011	Annual electricity	consumption (*2)	kWh/a	432	527	684		
	SCOP			5.8	5.8	5.5		
		Energy efficiency class		A+++	A+++	A+++		
	Design load		kW	4.7 (-22°C)	5.9 (-22°C)	7.4 (-22°C)		
		at reference design temperature	kW	3.1 (-22°C)	3.7 (-22°C)	4.0 (-22°C)		
	Declared Capacity	at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)		
Heating (Colder	Capacity	at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)		
(Colder Season)	Back up heating	capacity	kW	1.6 (-22°C)	2.2 (-22°C)	3.4 (-22°C)		
0000011	Annual electricity	consumption ("2)	kWh/a	2766	3453	4707		
	SCOP			3.5	3.5	3.3		
		Energy efficiency class		A	A	В		

Туре								Inverter H	eat Pump				
Indoor Ur	nit			MSZ-AY15VGK(P)	MSZ-AY20VGK(P)	MSZ-AY25VGK(P)	MSZ-AY25VGK(P)	MSZ-AY35VGK(P)	MSZ-AY35VGK(P)	MSZ-AY42VGK(P)	MSZ-AY42VGK(P)	MSZ-AY50VGK(P)	MSZ-AY50VGK(P)
Outdoor I	Jnit			MUZ-AY15VG	MUZ-AY20VG	MUZ-AY25VG	MUZ-AY25VGH	MUZ-AY35VG	MUZ-AY35VGH	MUZ-AY42VG	MUZ-AY42VGH	MUZ-AY50VG	MUZ-AY50VGH
Refrigera	nt							R3	2("3)				
	Design load kW		-	-	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0	
Cooling	Annual electricity consumption (*2) kWh/a		kWh/a	-	-	100	100	141	141	186	186	232	232
	SEER (*4)			-	-	8.7	8.7	8.7	8.7	7.9	7.9	7.5	7.5
		Energy efficiency class		-	-	A+++	A+++	A+++	A+++	A++	A++	A++	A++
	Design load kW		kW	0.9 (2°C)	1.3 (2°C)	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
	Declared	at reference design temperature	kW	0.9 (2°C)	1.3 (2°C)	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	0.9 (2°C)	1.3 (2°C)	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	1.6 (-15°C)	1.8 (-20°C)	1.9 (-20°C)	1.9 (-20°C)	2.0 (-20°C)	2.0 (-20°C)	2.7 (-20°C)	2.7 (-20°C)	3.0 (-20°C)	3.0 (-20°C)
Season)	Back up heating	capacity	kW	0.0 (2°C)									
	Annual electricity consumption ("2) kWh/a		kWh/a	267	350	319	319	376	376	495	495	523	523
	SCOP			4.7	5.2	5.7	5.7	5.9	5.9	5.9	5.9	6.1	6.1
		Energy efficiency class		A++	A+++								

Туре				Inverter H	leat Pump	
Indoor Ur	nit			MSZ-AP60VG(K)	MSZ-AP71VG(K)	
Outdoor I	Jnit			MUZ-AP60VG	MUZ-AP71VG	
Refrigera	nt	R	32 ^(*3)			
	Design load		kW	6.1	7.1	
Cooling	Annual electricity	consumption (*2)	kWh/a	288 345		
ocomig	SEER			7.4	7.2	
		Energy efficiency class		A++	A++	
	Design load		kW	2.5 (2°C)	3.7 (2°C)	
		at reference design temperature	kW	2.5 (2°C)	3.7 (2°C)	
	Declared Capacity	at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)	
Heating (Warmer	Capacity	at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)	
(warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	
222.0011	Annual electricity	consumption (*2)	kWh/a	627	891	
	SCOP			5.5	5.8	
		Energy efficiency class		A+++	A+++	

Туре						Inverter H	leat Pump		
Indoor Ur	nit			MSZ-E	F25VG	MSZ-E	F35VG	MSZ-EF42VG	MSZ-EF50VG
Outdoor I	Unit			MUZ-EF25VG	MUZ-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH	MUZ-EF42VG	MUZ-EF50VG
Refrigera	nt					R3	12 ^(*3)		
	Design load		kW	2.5	2.5	3.5	3.5	4.2	5.0
Cooling	Annual electricity consumption (*2) kWh/a			96	96	139	139	186	233
coomig	SEER			9.1	9.1	8.8	8.8	7.9	7.5
		Energy efficiency class		A+++	A+++	A+++	A+++	A++	A++
	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	2.0 (-15°C)	2.0 (-15°C)	2.4 (-15°C)	2.4 (-15°C)	3.4 (-15°C)	3.5 (-15°C)
Season)	Back up heating	g capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
Season)	Annual electricity	consumption (*2)	kWh/a	311	311	398	398	489	595
	SCOP			5.9	5.9	5.6	5.6	6.0	5.4
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++

Туре					Inverter H	eat Pump	
Indoor Ur	nit			MSZ-BT20VG	MSZ-BT25VG	MSZ-BT35VG	MSZ-BT50VG
Outdoor I	Unit			MUZ-BT20VG	MUZ-BT25VG	MUZ-BT35VG	MUZ-BT50VG
Refrigera	nt				R3	2 (*3)	
	Design load		kW	2.0	2.5	3.5	5.0
Cooling	Annual electricity	consumption (*2)	kWh/a	86	108	180	265
ocomig	SEER			8.1	8.1	6.8	6.6
		Energy efficiency class		A++	A++	A++	A++
	Design load		kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		At reference design temperature	kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
	Declared Capacity	at bivalent temperature	kW	0.9(2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-15°C)	3.4 (-15°C)
(warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
0000011	Annual electricity	consumption (*2)	kWh/a	234	268	304	543
	SCOP (*4)			5.3	5.7	5.9	5.4
		Energy efficiency class		A+++	A+++	A+++	A+++

Туре						Inverter H	leat Pump		
Indoor Ur	nit			MSZ-HR25VF	MSZ-HR35VF	MSZ-HR42VF	MSZ-HR50VF	MSZ-HR60VF	MSZ-HR71VF
Outdoor	Unit			MUZ-HR25VF	MUZ-HR35VF	MUZ-HR42VF	MUZ-HR50VF	MUZ-HR60VF	MUZ-HR71VF
Refrigera	nt					R32	2 (*3)		
	Design load		2.5	3.4	4.2	5.0	6.1	7.1	
Cooling	Annual electricity	consumption (12)	kWh/a	141	191	226	269	296	355
coomig	SEER			6.2	6.2	6.5	6.5	7.2	7.0
		Energy efficiency class		A++	A++	A++	A++	A++	A++
	Design load		kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
		at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
	Declared Capacity	at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
Season)	Back up heating	g capacity	kW	0.0 (2°C)					
,	Annual electricity	consumption (*2)	kWh/a	289	344	427	558	640	802
	SCOP			5.3	5.2	5.2	5.2	5.4	5.2
	Energy efficiency class			A+++	A+++	A+++	A+++	A+++	A+++

Туре					nverter Heat Pump)		
Indoor Ur	nit			MSZ-DW25VF	MSZ-DW35VF	MSZ-DW50VF		
Outdoor I	Jnit			MUZ-DW25VF	MUZ-DW35VF	MUZ-DW50VF		
Refrigera	nt			R32 (3)				
	Design load		kW	2.5	3.4	5.0		
Coolina	Annual electricity	consumption (12)	kWh/a	135	184	261		
cooming	SEER			6.2	6.2	6.5		
		Energy efficiency class		A++	A++	A++		
	Design load		kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
		at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
	Declared Capacity	at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
Heating	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)		
(Warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)		
0003011)	Annual electricity	consumption (*2)	kWh/a	287	351	508		
	SCOP			5.3	5.1	5.3		
		Energy efficiency class		A+++	A+++	A+++		

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant fluid with (*2) Energy consumption based on standard tests results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, 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 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 with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid with a GWP equal to 1950. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.







SELECTION

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

	SELECT INDOOR UNIT	
Select the optimal unit and capac	ity required to match room construction an	d air conditioning requirements.
R32 (R410A)	R32 (R410A)	R32
Units without Remote Controller SLZ-M15FA2 (Multi split series connection only) SLZ-M25FA2 SLZ-M35FA2 SLZ-M50FA2 SLZ-M60FA2	Units without Remote Controller SEZ-M25DA2 SEZ-M35DA2 SEZ-M50DA2 SEZ-M60DA2 SEZ-M71DA2	Units without Remote Controller SFZ-M25VA SFZ-M35VA SFZ-M50VA SFZ-M60VA SFZ-M71VA
Panel With Signal With 3D i-see With Wireless With Plasma SIP-2FA SIP-2FA Connect SIP-2FAL ✓ Connect SIP-2FAL ✓ Connect SIP-2FAL ✓ Connect SIP-2FAL ✓ Connect SIP-2FALE ✓ ✓ SIP-2FALME2 ✓ ✓ SIP-2FALP ✓ ✓ SIP-2FALP ✓ ✓ SIP-2FALP ✓ ✓	Units with Wireless Remote Controller SEZ-M25DAL2 SEZ-M35DAL2 SEZ-M50DAL2 SEZ-M60DAL2 SEZ-M71DAL2	

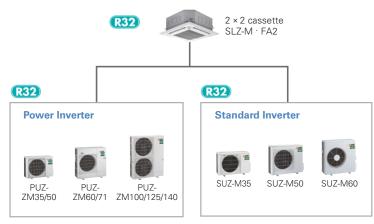


*To confirm compatibility with the MXZ Series multi-type system, refer to the MXZ Series page.



2x2 Cassette Line-up

The SLZ series was previously only able to be connected to standard inverters and some power inverters. However, it can now also be connected to low-capacity power inverters. The ability to connect to a high-performance power inverter allows us to offer a wider range of options to our customers.



New lineup

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

Capacity	15	25	35	50	60
SLZ-KF		\checkmark	\checkmark	\checkmark	\checkmark
SLZ-M	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

Beautiful design

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

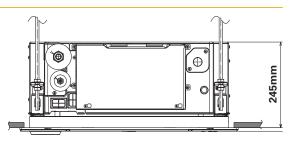
Of course, design matched 2×2 (600mm*600mm) ceiling construction specifications.



The height above ceiling of 245mm

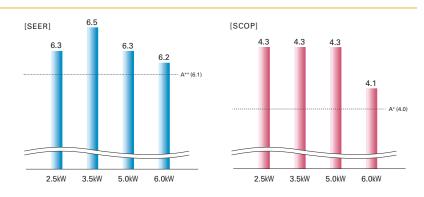
The height above ceiling of 245mm enables fitting into narrow ceiling space. Installation is simple, even when the ceiling spaces are narrow to make the ceilings higher.

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



Energy-saving Performance*

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



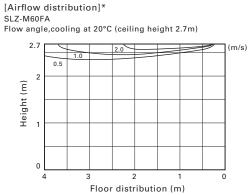
Quietness

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



Horizontal Airflow

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



*Vane angle: Horizontal

Easy installation

Temporary hanging hook

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





No need to remove screws

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

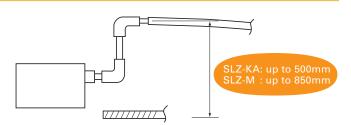


Control box cover



Drain lift

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



3D -see Sensor for S & P SERIES

Detects number of people

Room occupancy energy-saving mode

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

No occupancy energy-saving mode

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

No occupancy Auto-OFF mode*

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

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

Detects people's position

Direct/Indirect settings*

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



*PAR-41MAA or PAR-SL101A-E is required for each setting.

Seasonal airflow*

<When cooling>

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

Room occupancy energy save mode

ancy energy save mod

No occupancy Auto-Off mode

100

100

<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-41MAA is required for each setting

1°C

0

2°C

power savings

Auto-Off

power savings



*PAR-41MAA is required for each setting.

Connectable to **Plasma Quad Connect**

The optional Plasma Quad Connect SLP-2FAP, SLP-2FALP, SLP-2FALMP2 can be installed on the indoor units.*1*2*3

- *1 Plasma Quad Connect cannot be used with PAC-SK54/46KF-E (V blocking filter).
- *2 If Plasma Quad Connect is used with MAC-334/397/587IF-E (Interface), Plasma Quad Connect use the indoor units CN105. Other interface use the another CN105 on Plasma Quad Connect's PCB.
- *3 If Plasma Quad Connect is used with PAC-SK35VK-E (Valve kit) or PAC-SK39AP-E (Valve kit attachment), Plasma Quad Connect use the indoor units barring holes for valve kit. Valve kit needs to be installed on suspension bolts or on horizontal surface using dedicated attachment optional parts.



SLZ-M se	RIES				Inverter Jost Lap Carl Karger Co Fan More PARM Course Figure Method
Indoor Uni (R32) (R410A) SLZ-M15/	t 25/35/50/60FA	2		Lay a	Outdoor Unit Image: R32 For Single Image: Puz-zM35/50 Puz-zM35/50 Puz-zM36 Puz-zM120/125/140 Puz-zM130/125/140 Puz
Panel SLP-2FA SLP-2FAL SLP-2FAL SLP-2FALE SLP-2FALE SLP-2FALE SLP-2FALE SLP-2FALP SLP-2FALP SLP-2FALP SLP-2FALP	With Signal Receiver	With 3D i-see Sensor ✓ ✓	With Wireless Remote Controller	With Plasma Quad Connect	Romoto Controllor
Pure White AU Flare connection	TO NE Fresh-ar Intake	Long Life	FA Swing Checkl		Auto Restart Low Temp Cooling Group Octowa M-NET Control Optional Wi-Fi */) Control MXZZ Convection Drain Lift Up

								oor Unit Cap								
Indoor Unit Combination					For Single					For Twin			For Triple		For Qu	adruple
		35	50	60	71	100	125	140	71	100	125	100	125	140	125	140
Power Invert	er (PUZ-ZM)	35×1	50×1	60×1	-	-	-	-	35×2	50×2	60×2	35×3	50×3	50×3	35×4	35×4
	Distribution Pipe	-	-	-	-	-	-	-	М	SDD-50TR2	2-E	N	/ISDT-111R3	-E	MSDF-1	1111R2-E

Туре					Inverter Heat Pump	
ndoor Unit				SLZ-M35FA2	SLZ-M50FA2	SLZ-M60FA2
Outdoor Ur	it			PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2
efrigerant	*1)				R32	
ower	Source				Outdoor power supply	
upply	Outdoor(V/Phase/Hz)				230/Single/50	
ooling		Rated	kW	3.6	5.0	6.1
			kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.5
		Rated	kW	0.800	1.315	1.648
	EER			4.50	3.80	3.70
	Design load		kW	3.6	5.0	6.1
	Annual electricity consump	tion(*2)	kWh/a	194	280	346
	SEER ^(*4)		ice en y ca	6.5	6.2	6.1
		Energy efficiency class		A++	0.2 A++	A++
eating			kW	4.1	5.0	6.4
ang			kW	1.6 - 5.0	2.5 - 5.5	2.8 - 7.3
		Rated	kW	1.205	1.470	2.064
	COP	[3.40	3.40	3.10
	Design load		kW	2.4	3.8	4.4
		at reference design temperature		2.4 (-10°C)	3.8 (-10°C)	4.4 4.4 (-10°C)
			kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)
		at operation limit temperature		2.2 (-11°C)	3.7 (-11°C)	2.8 (-20°C)
	Back up heating capacity	at operation innit temperature	kW	0.0	0.0	0.0
	Annual electricity consump	tion ^(*2)	kWh/a			1560
	SCOP(*4)		Kvvnyu	820 1273 4.0 4.1		3.9
		Energy efficiency class		4.0 A+	A+	A
perating	Current(Max)		A	13.2	13.3	19.4
		Rated	kW	0.02 / 0.02	0.03 / 0.03	0.04 / 0.04
	Operating Current(Max)		A	0.24	0.32	0.43
	Dimensions	H*W*D	mm	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>
	Weight		kg	15 <3>	15 <3>	15 <3>
	Air Volume (Lo-Mi2-Mi1-Hi)		m ³ /min	6.5-8.0-9.5	7.0-9.0-11.5	7.5-11.5-13.0
	Sound Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	25-30-34	27-34-39	32-40-43
	Sound Level (PWL)		dB(A)	51	56	60
utdoor	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)
	Weight		kg	46	46	67
		Cooling	m³/min	45	45	55
			m³/min	45	45	55
	Sound Level (SPL)	Cooling	dB(A)	44	44	47
		Heating	dB(A)	46	46	49
	Sound Level (PWL)	Cooling	dB(A)	65	65	67
	Operating Current(Max)		A	13	13	19
	Breaker Size		A	16	16	25
xt.Piping	Diameter ^(*5)	Liquid/Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88
1	Max.Length	Out-In	m	50	50	55
		Out-In	m	30	30	30
		Cooling ^(*3)	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21

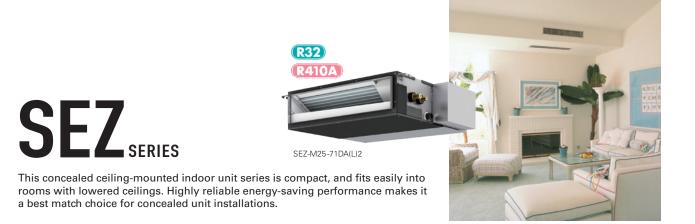
*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 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 Ra10A is 2088 in the IPCC 4th Assessment Report.
 *2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
 *3 Optional air protection guide is required where ambient temperature is lower than -5°C.
 *4 SEER and SCOP are based on 2009/12/5/EC:Energy-related Products Directive and Regulation(EU) No206/2012.
 *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

ndoor Uni	t	0.	-1		Outdoor Unit	For Single	R32	
R32 R410A				- Maria	R32			
SLZ-M15/	25/35/50/60FA2				SUZ-M25/35VA	SUZ-M50VA	SUZ	M60VA
Panel					Remote Control	ler		
Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Plasma Quad Connect		ler		
Panel SLP-2FA	Receiver					ler	•	
Panel SLP-2FA SLP-2FAL		Sensor						
Panel SLP-2FA SLP-2FAL SLP-2FAE	Receiver					ler	- 25 or	Anne
Panel SLP-2FA SLP-2FAL SLP-2FAE SLP-2FALE	Receiver	Sensor	Remote Controller		Remote Control	Ame	- 25.0c	
Panel SLP-2FA SLP-2FAL SLP-2FAL SLP-2FALE SLP-2FALE SLP-2FALM2	Receiver	Sensor ✓ ✓	Remote Controller			Anne Salassa ave Salassa ave	25.orc	
Panel SLP-2FA SLP-2FAL SLP-2FAL SLP-2FALE SLP-2FALM2 SLP-2FALM22	Receiver	Sensor	Remote Controller	Quad Connect		Anne Salassa ave Salassa ave	25.oc	
Panel SLP-2FA SLP-2FAL SLP-2FAL SLP-2FALE SLP-2FALM2 SLP-2FALM2 SLP-2FALM22 SLP-2FAP	Receiver	Sensor ✓ ✓	Remote Controller	Quad Connect				
Panel SLP-2FA SLP-2FAL SLP-2FAE SLP-2FALE SLP-2FALM2 SLP-2FALM2	Receiver	Sensor ✓ ✓	Remote Controller	Quad Connect			25.or	

				oor Unit Cap					
Indoor Unit C	ombination	For Single							
		25	35	50	60	71			
S Seires		25×1	35×1	50×1	60×1	-			
	Distribution Pipe	-	-	-	-	-			

Туре				0171405540		leat Pump	0171400540				
ndoor Unit				SLZ-M25FA2	SLZ-M35FA2	SLZ-M50FA2	SLZ-M60FA2				
utdoor Ur				SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA				
efrigerant						32					
	Source					ower supply					
	Outdoor(V/Phase/Hz)			230/Single/50							
ooling	Capacity		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	0.657	1.093	1.352	1.676				
	EER			3.80	3.20	3.40	3.40				
	Design load		kW	2.5	3.5	4.6	5.7				
	Annual electricity consumption ^(*2)		kWh/a	139	183	253	321				
	SEER ^(*4)			6.3	6.7	6.3	6.2				
		Energy efficiency class		A++	A++	A++	A++				
eating	Capacity		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	0.886	1.078	1.562	2.133				
	COP			3.61	3.71	3.20	3.00				
	Design load			2.2	2.6	3.6	4.6				
	Declared Capacity	at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.1 (-10°C)				
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.1 (-7°C)				
			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	845	1192	1560				
	SCOP ^(*4)		ice en ja	4.3	4.3	4.2	4.1				
		Energy efficiency class		A+	A+	A+	A+				
perating	Current(Max)		A	7.0	8.7	13.8	15.2				
	Input [cooling / Heating]	Rated	kW	0.02 / 0.02	0.02 / 0.02	0.03 / 0.03	0.04 / 0.04				
	Operating Current(Max)		A	0.20	0.24	0.32	0.43				
	Dimensions	H*W*D	mm	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625>	245-570-570 <10-625-625				
	Weight		ka	15 <3>	15 <3>	15 <3>	15 <3>				
	Air Volume (Lo-Mi2-Mi1-Hi)		m ³ /min	6.5-7.5-8.5	6.5-8.0-9.5	7.0-9.0-11.5	7.5-11.5-13.0				
	Sound Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	25-28-31	25-30-34	27-34-39	32-40-43				
	Sound Level (PWL)		dB(A)	48	51	56	60				
utdoor	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	880-840-330				
nit	Weight		kg	30	35	41	54				
	Air Volume	Cooling	m ³ /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				
	Diameter ^(*5)	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88				
	Max.Length	Out-In	m	20	20	30	30				
	Max.Height	Out-In	m	12	12	30	30				
	d Operating Range (Outdoor)	Cooling ^(*3)	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46				
	a operating nunge (outdoor)	Heating	°C	-10 ~ +24	-10 ~ +40	-10 ~ +24	-10 ~ +24				

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming would be refrigerant with ligher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfree with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report. *2 Energy consumption based on standard test results. Actual energy consumption based on standard test results. Actual energy consumption based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No206/2012. *4 Joint pipe is required depending on installed refrigerant pipes, outdoor units.



High Energy Efficiency

Highly efficient indoor units with DC inverter contribute to a reduction in electricity consumption throughout a year. The SEZ series has achieved energy-saving performance of "A+" or higher when connected to PUZ series and "A" or higher when connected to SUZ-M series.



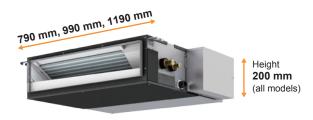
Lineup of compatible outdoor unit has been expanded by power inverter series

Although models in the SEZ series were previously only compatible with the standard inverter, they can now also be connected to small capacity power inverters. The ability to connect to a power inverter with high-performance specifications makes it possible to offer an even wider range of solutions to our customers.



Compact Design with a Height of 200 mm

The height of the units is 200 mm for all capacity ranges. Its thin body is suitable for installation in low ceilings with a small cavity space.



SEZ-M DA(L)2	M25	M35	M50	M60	M71
Height mm			200		
Width mm	790	99	90	119	90

Selectable Static Pressure Levels

(set to 25 Pa at the time of factory shipment).

External static pressure can be selected from 5, 25, 35, and 50 Pa

Low Noise Operation

Low noise operation contributes to a peaceful indoor environment. The SPL of M25/35 model, which is the quietest model among the new series, is as low as 22 dB (ESP 5 Pa, low fan speed setting).

	Сара	acity	M25	M35	M50	M60	M71
Sound	_	High	29	30	36	37	39
pressure level	e Fan speed	Mid	25	26	33	33	34
		Low	22	22	29	29	29

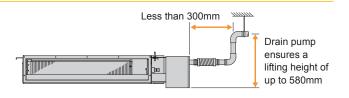
*When fan speed setting is low, the cooling/heating capacity is subject to reduce.

*Operation noise may increase due to the installation environment or the operation status.

Drain Pump (Optional)

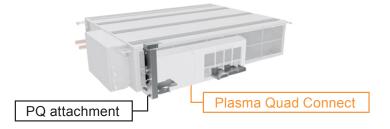
The PAC-KE07DM-E drain pump is available as an option. The drain connection can be raised as high as 580 mm, allowing more freedom in piping layout design.

*The use of drain pump may increase the operation noise.



Connectable to Plasma Quad Connect

The optional Plasma Quad Connect MAC-100FT-E can be installed on the indoor unit's air inlet side. For installation, PQ attachment PAC-HA11PAR is required.



SEZ-M series	Inverter Autor DC Faller	Heat Caulking Heat Caulking Faing Method Growth Pom
Indoor Unit	Outdoor Unit	
R32	R32 For Single	For Multi (Twin/Triple/Quadruple)
R410A	PUZ-ZM35/50 PUZ-ZM60/7	71 PUZ-ZM71 PUZ-ZM100/125/140
	Remote Controller	
SEZ-M25/35/50/60/71DA2 (Requires Wired Remote Controller) SEZ-M25/35/50/60/71DAL2 (Wireless Remote Controller is enclosed)		25.0c
	Enclosed in *optiona SEZ-M DAL2 (for SEZ-M [
Stroup Control Cytom		are Set Failure Recall

Outdoor Unit Capacity																
Indoor Unit C	ombination	For Single					For Twin		For Triple		For Quadruple					
		35	50	60	71	100	125	140	71	100	125	100	125	140	125	140
Power Inverte	er (PUZ-ZM)	35×1	50×1	60×1	71×1	-	-	-	35×2	50×2	60×2	35×3	50×3	50×3	35×4	35×4
	Distribution Pipe	-	-	-	-	-	-	-	M	SDD-50TR2	2-E	N	/ISDT-111R3	-E	MSDF-1	1111R2-E

Туре						Heat Pump	
ndoor Unit				SEZ-M35DA(L)2	SEZ-M50DA(L)2	SEZ-M60DA(L)2	SEZ-M71DA(L)2
utdoor Uni				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2
efrigerant ^{(*}						R32	
	Source					oower supply	
upply (Dutdoor(V/Phase/Hz)				230/5	Single/50	
ooling			kW	3.6	5.0	6.1	7.1
		Min-Max	kW	1.6 - 3.9	2.3 - 5.6	2.7 - 6.3	3.3 - 8.1
1	Total Input	Rated	kW	0.857	1.315	1.525	1.918
	EER ^(*4)			4.20	3.80	4.00	3.70
Г			kW	3.6	5.0	6.1	7.1
	Annual electricity consumption(*2) kW			205	287	352	440
	SEER ^{(*4)(*5)}			6.1	6.1	6.0	5.6
		Energy efficiency class		A++	A++	A+	A+
eating	Capacity		kW	4.1	6.0	7.0	8.0
		Min-Max	kW	1.6 - 5.0	2.5 - 7.2	2.8 - 8.0	3.5 - 10.2
	Total Input	Rated	kW	1.025	1.578	1.707	2.051
	COP ^(*4)			4.00	3.80	4.10	3.90
F			kW	2.4	3.8	4.4	4.7
		at reference design temperature		2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)
		at bivalent temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)
			kW	2.2 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.5 (-20°C)
	Back up heating capacity		kW	0.0	0.0	0.0	0.0
	Annual electricity consump	tion ^(*2)	kWh/a	791	1279	1464	1633
	SCOP(*4)(*5)			4.2	4.1	4.2	4.0
		Energy efficiency class		A+	A+	A+	A+
perating (Current(Max)		A	13.7	13.8	19.9	20.0
door l	nput [cooling / Heating]	Rated	kW	0.047	0.077	0.084	0.102
nit 🖸	Operating Current(Max)	P	A	0.65	0.82	0.88	1.00
0	Dimensions	H*W*D	mm	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700
	Veight		kg	22	22	25.5	25.5
	Air Volume (Lo-Mid-Hi)		m³/min	7 - 9 - 11	10 - 12.5 - 15	12 - 15 - 18	12 - 16 - 20
	External Static Pressure(*7)		Pa	<5> - 25 - <35> - <50>	<5> - 25 - <35> - <50>	<5> - 25 - <35> - <50>	<5> - 25 - <35> - <50:
S	Sound Level (Lo-Mid-Hi) (SPL)		dB(A)	23 - 27 - 31	30 - 34 - 37	30 - 34 - 38	30 - 35 - 40
L			dB(A)	22 - 26 - 30	29 - 33 - 36	29 - 33 - 37	29 - 34 - 39
	Sound Level (PWL)		dB(A)	51	57	58	60
			mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)
	Neight		kg	46	46	67	67
4			m³/min	45	45	55	55
L			m³/min	45	45	55	55
5	Sound Level (SPL)		dB(A)	44	44	47	47
			dB(A)	46	46	49	49
	Sound Level (PWL)		dB(A)	65	65	67	67
	Operating Current(Max) A			13	13	19	19
	Breaker Size		A	16	16	25	25
	Diameter ^(*6)		mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88
	Max.Length		m	50	50	55	55
			m	30	30	30	30
uaranteed	I Operating Range (Outdoor)	Cooling ^(*3)	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21

Integring in the state of th

SEZ-M series	Inverter Do Do Reason
Indoor Unit	Outdoor Unit For Single
R32 R410A	R32 Image: Suz-M25/35VA R32 R32 Image: Suz-M50VA Suz-M50VA R32 Image: Suz-M50VA R32 R32 R32 R32 Image: Suz-M50VA R32 R32 R32 Image: Suz-M50VA R32 Image: Suze-M50VA R32 Image: Suze-M50VA
	Remote Controller
SEZ-M25/35/50/60/71DA2 (Requires Wired Remote Controller) SEZ-M25/35/50/60/71DAL2 (Wireless Remote Controller is enclosed)	
	Enclosed in *optional *optional *optional Enclosed in (for SEZ-M DA2) (for SEZ-M DA2) (for SEZ-M DA2 SEZ-M DAL2
AUTO	Wi-Fi)) MXZ Drain Interface Connection Connection Connection

		Outdoor Unit Capacity							
Indoor Unit C	Combination	For Single							
		25	35	50	60	71			
S Seires	S Seires		35×1	50×1	60×1	71×1			
	Distribution Pipe	-	-	-	-	-			

Туре						Inverter Heat Pump		
ndoor Uni	t			SEZ-M25DA(L)2	SEZ-M35DA(L)2	SEZ-M50DA(L)2	SEZ-M60DA(L)2	SEZ-M71DA(L)2
utdoor U	nit			SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA
efrigeran	ť(*1)					R32		
ower	Source					Outdoor power supply		
upply	Outdoor(V/Phase/Hz)					230/Single/50		
ooling	Capacity	Rated	kW	2.5	3.5	5.0	6.1	7.1
		Min-Max	kW	1.4 - 3.2	0.7 - 3.9	1.1 - 5.6	1.6 - 6.3	2.2 - 8.1
	Total Input	Rated	kW	0.714	1.000	1.547	1.848	2.151
	EER ^(*4)			3.50	3.50	3.23	3.30	3.30
	Design load		kW	2.5	3.5	5.0	6.1	7.1
	Annual electricity consum	ption ^(*2)	kWh/a	146	202	290	385	451
	SEER ^{(*4)(*5)}		6.0	6.0	6.0	5.5	5.5	
		Energy efficiency class		A+	A+	A+	A	A
ating	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	0.803	1.076	1.617	2.049	2.285
	COP ^(*4)			3.61	3.90	3.71	3.61	3.50
	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)	4.5 3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)
	Deciarca Supacity	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	at operation milit temperature	kW	0.2	0.3	0.5	0.5	0.6
	Annual electricity consum	ntion ^(*2)	kWh/a	769	878	1501	1516	2030
	SCOP ^{(*4)(*5)}	ption	Kvvii/a	4.0	4.1	4.0	4.2	3.9
	3001	Energy efficiency class		4.0 A+	4.1 A+	4.0 A+	4.2 A+	A
erating	Current(Max)	Lifergy eniciency class	A	7.4	9.2	14.3	15.7	15.8
door	Input [cooling / Heating]	Rated	kW	0.043	0.047	0.077	0.084	0.102
nit	Operating Current(Max)	nated	Δ	0.62	0.65	0.82	0.88	1.00
	Dimensions	H*W*D	mm	200 - 790 - 700	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700
	Weight		ka	18	200 330 700	220 230 700	25.5	25.5
	Air Volume (Lo-Mid-Hi)		m³/min	5.5 - 7 - 9	7 - 9 - 11	10 - 12.5 - 15	12 - 15 - 18	12 - 16 - 20
	External Static Pressure(*6)		Pa	<5> - 25 - <35> - <50>	<5> - 25 - <35> - <50>	<5> - 25 - <35> - <50>	<5> - 25 - <35> - <50>	<5> - 25 - <35> - <5
	Sound Level (Lo-Mid-Hi) (SPL)	Bated	dB(A)	23 - 26 - 30	23 - 27 - 31	30 - 34 - 37	30 - 34 - 38	30 - 35 - 40
		5Pa(*7)	dB(A)	22 - 25 - 29	22 - 26 - 30	29 - 33 - 36	29 - 33 - 37	29 - 34 - 39
	Sound Level (PWL)	·	dB(A)	50	51	57	58	60
ıtdoor	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	880-840-330	880-840-330
nit	Weight		kg	30	35	41	54	55
	Air Volume	Cooling	m³/min	36.3	34.3	45.8	50.1	50.1
		Heating	m³/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
t.Piping	Diameter ^(*6)	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
	ed Operating Range (Outdoor)	Cooling ^(*3)	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46

 Imaging
 Imaging

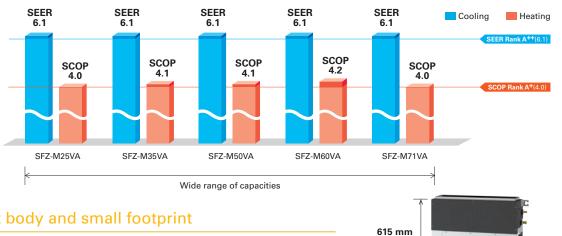
SF7

The concealed floor standing type indoor unit is newly introduced to the S-series and can be neatly installed in the perimeter zone. High energy efficiency is achieved across all capacity range. External static pressure, airflow rate, and air intake direction can be selected according to the customer's choice.



A wide lineup offering high energy efficiency

The SFZ series achieves an A++ rating on the SEER index, and an A+ rating on the SCOP index for all capacity range. No matter which capacity you select, the series offers a high level of energy efficiency.



Compact body and small footprint

With the control box built inside the unit, the compact body and small footprint are realized. This allows the unit to be installed within a small perimeter zone.

Flexible installation

Air inlet direction from the bottom or front can be selected by changing panel, fan guard and filter.

Bottom suction *1

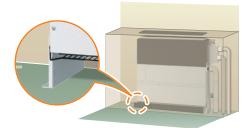


Front suction *2

Air outlet From the front

Installation with leas

(Without legs



700 mm

^Z 200 mm

*Height of unit (with legs) is 690 mm. *Legs are supplied as accessory with the unit.

*1 Select a site where the flow of supply air is not blocked. The unit cannot be placed directly on the floor in the case of bottom suction. *2 Unit with front suction generate more noise compared to bottom suction. Not recommended to be installed in rooms such as bedrooms where quietness is valued.

Fan speed

Airflow rate can be selected from 3 patterns; Low-Medium-High.

External static pressure

Four levels of static pressure are available. The ability to select additional static pressure provides flexibility for air outlet configuration.

SFZ-M25/35/50/60/71VA <0>/25/<40>/<60> Pa

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



Outdoor Unit USZ M25V/A SUZ	Outdoor Refriger Power Supply	Unit ant*1 Source Outdoor (V/Phase/H Capacity Total Input	Rated				SUZ-M50VA		SFZ-M71VA SUZ-M71VA				
Tertigram** R32** R32** Supp? Outdoor (V/Phase/Hz) 200 / Single / 50 Cooling Capacity Rated KW 2.5 3.5 5.0 6.1 1.0 Total Input Rated KW 2.5 3.5 5.0 6.1 1.6 8.3 1.9 Total Input Rated KW 0.641 1.000 1.470 1.848 2.2 Design Load KW 0.641 1.000 1.470 1.848 2.2 Design Load KW 2.5 3.5 5.0 6.1 3.4 SEER 3.90 3.50 3.40 3.30 3.3 Design Load KW 2.5 3.5 5.0 6.1 3.6 SEER 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.2 6.1 <t< th=""><th>Refriger Power Supply</th><th>ant*1 Source Outdoor (V/Phase/H: Capacity Total Input</th><th>Rated</th><th></th><th>SUZ-M25VA</th><th>SUZ-M35VA</th><th></th><th>SUZ-M60VA</th><th>SUZ-M71VA</th></t<>	Refriger Power Supply	ant*1 Source Outdoor (V/Phase/H: Capacity Total Input	Rated		SUZ-M25VA	SUZ-M35VA		SUZ-M60VA	SUZ-M71VA				
Source Outdoor power supply Supply Outdoor (V/Phase/Hz) 220 / Single / 50 Cooling [apacthy Rated KW RAted KW 2.5 3.5 5.0 6.1 [apacthy Rated KW Rated KW 8.4 2.0 0.7 - 3.9 1.1 - 5.6 1.6 - 6.3 1.9 [call input Rated KW 0.641 1.000 1.470 1.848 2.2 [call input Rated KW 0.641 1.000 1.470 1.848 2.2 [call input Rated KW 2.0 3.50 5.0 6.1 1.6 [Annual Electricity Consumption** Whi/a 14.3 199 2.84 3.46 4.4 [Annual Electricity Consumption** Whi/a 1.42 1.0 6.1<	Power Supply	Source Outdoor (V/Phase/Hz Capacity Total Input	Rated				R32*1						
Supply Ourdoor (V/Phase/Hz) Cooling Cooling Capacity Rated KW 2.5 3.5 5.0 6.1 Cooling Capacity Rated KW 1.5 - 3.2 0.7 - 3.9 1.1 + 5.6 1.6 + 6.3 1.9 Total Input Rated KW 0.641 1.000 1.470 1.848 2.5 Design Load KW 0.641 1.000 1.470 1.848 2.5 Design Load KW 2.5 3.5 5.0 6.1 6.1 SEER*** 6.1 6.1 6.1 6.1 6.1 6.1 SEER*** 6.1 6.1 6.1 6.1 6.1 6.1 Marcage Rated KW 3.2 4.1 6.0 7.0 7.0 Total Input Rated KW 3.2 4.1 6.0 7.0 7.0 Total Input Rated KW 2.2 2.6 4.3 4.6 9.0 CoP	Supply	Outdoor (V/Phase/Hz Capacity Total Input	Rated	-									
Cooling Total Input Rated Min - Max KW 2.5 3.5 5.0 6.1 Total Input Rated KW 1.5 - 3.2 0.7 - 3.9 1.1 - 5.6 1.6 - 6.3 1.9 Total Input Rated KW 0.641 1.000 1.470 1.848 2.2 EER W 3.90 3.50 3.40 3.30 3.3 Annual Electricity Consumption*2 W/h/n 143 199 284 246 EER**** Energy Efficiency Class A*+ A*+ A*+ A*+ A*+ A*+ Heating Keverage Capacity Rated KW 3.2 4.1 6.0 7.0 1.0 Total Input Rated KW 3.2.4 1.0 -5.0 1.5 -7.2 1.6 -8.0 2.0 Total Input Rated KW 0.2.6 1.05.0 1.5 -7.2 1.6 -8.0 2.0 Total Input Rated KW 2.0 -10*C) 2.3 1-0*C) 3.1 (-10*C) 5.2 1.0 5		Capacity Total Input	Rated			Outdoor power supply							
Min - Max WW 1.5 - 3.2 0.7 - 3.3 1.1 - 5.6 1.6 - 6.3 1.9 Total Input Rated WW 0.641 1.000 1.470 1.848 2.2 EER 3.00 3.50 3.40 3.30 3.21 No No </th <th>Cooling</th> <th>Total Input</th> <th></th> <th></th> <th colspan="8">230 / Single / 50</th>	Cooling	Total Input			230 / Single / 50								
Total Input Rated W 0.641 1.000 1.470 1.848 2. ER 3.90 3.50 3.40 3.31 1.00 0.5 0.00 1.00 0.5 1.00 0.5 1.00 0.5 1.00 0.5 1.00 0.5 1.00 0.5 1.00 0.5 1.00 0.5<		· · · · · · · · · · · · · · · · · · ·	NA1. NA.	kW	2.5	3.5	5.0	6.1	7.1				
ER index in		· · · · · · · · · · · · · · · · · · ·	IVIIN - IVIAX	kW	1.5 - 3.2	0.7 - 3.9	1.1 - 5.6	1.6 - 6.3	1.9 - 8.1				
Design Load Annual Electricity Consumption*2 WW 2.5 3.5 5.0 6.1 Heating (Average Sesson) Energy Efficiency Class A++ A+6 1051 11617 1886 2.2 2.0 OP 3.10* 0.5 11617 1886 12 14 14 14 14 14 14 14 14 14 14 14 12 4 <		EER	Rated	kW	0.641	1.000	1.470	1.848	2.151				
Annual Electricity Consumption*2 kWh/a 143 199 284 346 44 GER**** 6.1 6.2 6.3 7.0					3.90	3.50	3.40	3.30	3.30				
SEER+*** 6.1 6.1 6.1 6.1 6.1 6.1 6.1 Heating (Average Season) Capacity Min - Max Energy Efficiency Class A++ A+ A+ A.0 2.0 Co Co Co Co Co A.1 Co Co A.1 Co A.1 Co A.1 Co A.1 Co A.1 Co Co <th></th> <th>Design Load</th> <th></th> <th>kW</th> <th>2.5</th> <th>3.5</th> <th>5.0</th> <th>6.1</th> <th>7.1</th>		Design Load		kW	2.5	3.5	5.0	6.1	7.1				
Image: Construct of the second sec		Annual Electricity (Consumption*2	kWh/a	143	199	284	346	403				
Heating (Average Sesson) Capacity (Min - Max Rated (W KW 3.2 4.1 6.0 70 1 Sesson) Min - Max KW 3.2 4.1 6.0 70 1 Sesson) Min - Max KW 1.2 - 4.2 1.0 - 5.0 1.5 - 7.2 1.6 - 8.0 2.0 COP 3.61 3.90 3.71 4.6 7.0 3.71 4.71 4.1 4.7 4.7 4.7 4.7 4.7 7.7 7.72 7.72		SEER*4 *5			6.1	6.1	6.1	6.1	6.1				
(Average) Season (a) Min · Max kW 1.2 - 4.2 1.0 - 5.0 1.5 - 7.2 1.6 - 8.0 2.0 Total Input Rated kW 0.886 1.051 1.617 1.886 2.0 OP 3.61 3.90 3.71 7.71 4.71 7.71 7.71 7.71 7.71 7.71 7.71 7.71 7.7			Energy Efficiency Class		A++	A++	A++	A++	A++				
Season Interview NW 1.2 * 4.2 1.0 * 5.0 1.3 * 1.2 1.0 * 3.0 2.0 Total Input Rated KW 0.286 1.05 * 1.0 1.617 1.886 2.0 Operating Corp 3.61 3.90 3.71			Rated	kW	3.2	4.1	6.0	7.0	8.0				
Index Index KW 0.886 1.051 1.617 1.886 2.2 COP 3.61 3.90 3.71 <td< th=""><th></th><th></th><th>Min - Max</th><th>kW</th><th>1.2 - 4.2</th><th>1.0 - 5.0</th><th>1.5 - 7.2</th><th>1.6 - 8.0</th><th>2.0 - 10.2</th></td<>			Min - Max	kW	1.2 - 4.2	1.0 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2				
Jesign Load kW 2.2 2.6 4.3 4.6 4.6 Declared Capacity at reference design temperature kW 2.0 (-10°C) 2.3 (-10°C) 3.3 (-10°C) 4.1 (-10°C) 5.2 at operation limit temperature kW 2.0 (-10°C) 2.3 (-10°C) 3.3 (-10°C) 4.1 (-10°C) 5.2 Back Up Heating Capacity kW 2.0 (-10°C) 2.3 (-10°C) 3.3 (-10°C) 4.1 (-10°C) 5.2 Back Up Heating Capacity kW 0.0 (-10°C) 2.3 (-10°C) 3.3 (-10°C) 4.1 (-10°C) 5.2 SCOP**** 4.0 4.1 4.1 4.2 4.4 SCOP*** A 7.2 8.9 14.1 15.4 1 Indoor Input Rated kW 0.041 0.044 0.072 0.078 0.0 Operating Current (max) A 0.44 0.44 0.61 0.64 0.0 Indoor Input Rated kW 0.01 0.072 0.078 0.0 Dime	Season	Total Input	Rated	kW	0.886	1.051	1.617	1.886	2.156				
Declared Capacity at reference design temperature at bivalent temperature at bivalent temperature at operation limit temperature at operation limit temperature at operation limit temperature at operation limit temperature bivalent temperature temperature kW 2.0 (-10°C) 2.3 (-10°C) 3.3 (-10°C) 4.1 (-10°C) 5.2 (-10°C) Back Up Heating Capacity kW 0.0 (-7°C) 0.3 (-10°C) 3.3 (-10°C) 4.1 (-10°C) 5.2 (-10°C) Back Up Heating Capacity kW 0.2 (-10°C) 0.3 (-10°C) 3.3 (-10°C) 4.1 (-10°C) 5.2 (-10°C) Back Up Heating Capacity kW 0.2 (-0.3) 1.10 0.5 0 COP*** Constrained from temperature fenergy Efficiency Class A 7.2 8.87 1467 1532 1 Indoor Unit Input Rated kW 0.041 0.044 0.072 0.078 0.0 Unit Input Rated kW 0.041 0.044 0.61 0.64 0.0 Unit Input Rated kW 0 model 15.5 22.5 25.5 25 Current (COP			3.61	3.90	3.71	3.71	3.71				
at bivalent temperature at operation limit temperature back UP heating Capacity kW 2.0 (-7°C) 2.3 (-7°C) 3.8 (-7°C) 4.1 (-7°C) 5.2 (Design Load		kW	2.2	2.6	4.3	4.6	5.8				
Image: Second state at operation limit temperature kW 2.0 (-10°C) 2.3 (-10°C) 3.3 (-10°C) 4.1 (-10°C) 5.2 (0) Back Up Heating Capacity kW 0.2 0.3 1.0 0.5 0 Annual Electricity Consumption*2 kWh/a 766 887 1467 1532 1 SCOP*4*5 Energy Efficiency Class A+ A+ A+ A+ A 4.1 4.1 4.2 0 Indoor Input Rated kW 0.041 0.044 0.072 0.078 0.0 Unit Operating Current (max) A 0.44 0.44 0.61 0.64 0.0 Unit Operating Current (max) A 0.44 0.44 0.61 0.64 0.0 Vight Value N 0.61 0.64 0.0 0 0 0 0.75 / 40.7 / 60.5 4.5 / 5.5 22.5 22.5 22.5 22.5 22.5 22.5 22.5 / 40.5 / 40.5 / 40.5 / 40.5 / 40.5 / 40.5 / 40.5 / 40.5 / 40.5 / 40.5 / 40.5 / 4		Declared Capacity	at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.3 (-10°C)	4.1 (-10°C)	5.2 (-10°C)				
Back Up Heating Capacity kW 0.2 0.3 1.0 0.5 0 Annual Electricity Consumption*2 kWh/a 766 887 1467 1532 1 SCOP*4*5 4.0 4.1 4.1 4.2 7 SCOP*4*5 A+			at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.2 (-7°C)				
Annual Electricity Consumption*2 kWh/a 766 887 1467 1532 1 SCOP***5 4.0 4.1 4.1 4.2 4.4			at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.3 (-10°C)	4.1 (-10°C)	5.2 (-10°C)				
SCOP*4*5 4.0 4.1 4.1 4.1 4.2 4.2 Operating Current (max) A A+		Back Up Heating C	apacity	kW	0.2	0.3	1.0	0.5	0.6				
Energy Efficiency Class A ⁺ A		Annual Electricity Consumption*2		kWh/a	766	887	1467	1532	1997				
Operating Current (max) A 7.2 8.9 14.1 15.4 1 Indoor Unit Input Rated kW 0.041 0.044 0.072 0.078 0.0 Unit Input Rated kW 0.041 0.044 0.072 0.078 0.0 Unit Operating Current (max) A 0.4 0.44 0.61 0.64 0.0 Unit Operating Current (max) A 0.40 0.44 0.61 0.64 0.0 Dimensions #meshes**1 H × W × D mm 615 (690) - 97 (700) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (90 - 200 600 - 225 625 (- 20 - / 25 / <400 - / 600 - 205		SCOP*4 *5			4.0	4.1	4.1	4.2	4.0				
Indoor Unit Input Rated kW 0.041 0.044 0.072 0.078 0.0 Unit Operating Current (max) A 0.44 0.44 0.61 0.64 0 Dimensions deneb*** H × W × D mm 615 (690) - 97 (700) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 200 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 615 (690) - 97 (900) - 20 610 - 20 20 0 Unitit			Energy Efficiency Class		A+	A+	A+	A+	A+				
Unit Operating Current (max) A 0.44 0.44 0.61 0.64 00 Dimensions <paneb***< td=""> H × W × D mm 615 (690) - 977 (700) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 997 (900) - 200 615 (690) - 197 (1100) - 200 615 (690) - 197 (1100) - 200 615 (690) - 197 (1100) - 200 615 (690) - 197 (1100) - 200 615 (690) - 197 (1100) - 200 615 (690) - 197 (1100) - 200 615 (690) - 197 (1100) - 200 615 (690) - 197 (1100) - 200 615 (690) - 197 (1100) - 200 615 (690) - 60> (25 / 25 / 25 - 25 - 25 25 - 40> / 25 / 40> / 40> / 40> (25 / 240> / 40> / 20 / 20 60> / 25 / 240> / 40> / 20 60> / 25 / 240> / 40> / 20 60> / 25 / 240> / 40> / 20 60> / 25 / 240> / 40> / 20 60> / 25 / 240> / 40> / 20 60> / 25 / 240> / 40> / 20 60> / 25 / 240> / 40> / 20 60> / 25 / 240> /</paneb***<>	Operatio	g Current (max)		A	7.2	8.9	14.1	15.4	15.6				
Operating Current (max) A 0.044 0.044 0.012 0.012 0.012 0.012 0.012 0.012 0.012 0.012 0.014 </th <th></th> <th>Input</th> <th>Rated</th> <th>kW</th> <th>0.041</th> <th>0.044</th> <th>0.072</th> <th>0.078</th> <th>0.095</th>		Input	Rated	kW	0.041	0.044	0.072	0.078	0.095				
Weight <panel> kg 18.5 22.5 22.5 25.5 2 Air Volume [Lo-Mid-Hi] m³min 5.5 - 7 · 9 7 · 9 · 11 10 · 12.5 - 15 12 · 15 · 18 12 · . External Static Pressure** Pa <0>/25 / 40> / 60> <0> / 25 / 40> / 60> <</panel>	Unit	Operating Current (m	nax)	Α	0.44	0.44	0.61	0.64	0.76				
Air Volume [Lo-Mid-Hi] m ² min 5.5 - 7 · 9 7 · 9 · 11 10 · 12.5 · 15 12 · 15 · 18 12 · External Static Pressure*8 Pa <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40> / 60> <0>/25 / <40>		Dimensions <panel>*6 *7</panel>	$H \times W \times D$	mm	615 (690) - 797 (700) - 200	615 (690) - 997 (900) - 200	615 (690) - 997 (900) - 200	615 (690) - 1197 (1100) - 200	615 (690) - 1197 (1100) - 200				
External Static Pressure* ⁸ Pa		Weight <panel></panel>		kg	18.5	22.5	22.5	25.5	25.5				
Sound Level (SPL)* ⁹ [Lo-Mid-Hi] dB(A) 25 - 29 - 35 25 - 29 - 33 30 - 35 - 39 880 - 80 - 80 30 - 35 - 39 30 - 35 - 39 30 - 35 - 39 30 - 35 - 39 30 - 35 - 39 30 - 35 - 31 30 - 35 - 31 30 - 35 - 31 <		Air Volume [Lo-Mid-H	li]	m³/min	5.5 - 7 - 9	7 - 9 - 11	10 - 12.5 - 15	12 - 15 - 18	12 - 16 - 20				
Sound Level (PWL) dB(A) 54 53 59 59 Outdoor Unit Dimensions H × W × D mm 550 - 800 - 285 550 - 800 - 285 714 - 800 - 285 880 - 840 - 330 880 - 80 Weight kg 30 35 41 54 55 Air Volume Cooling m ³ min 36.3 34.3 45.8 50.1 55 Sound Level (SPL) Cooling dB(A) 45 48 48 49 50 Meating dB(A) 46 48 49 51 55 Sound Level (PWL) Cooling dB(A) 46 48 49 51 Feating dB(A) 59 59 64 65 55 Operating Current (max) A 6.8 8.5 13.5 14.8 1 Breaker Size A 10 10 20 20 50		External Static Press	ure ^{*8}	Pa	<0> / 25 / <40> / <60>	<0> / 25 / <40> / <60>	<0> / 25 / <40> / <60>	<0> / 25 / <40> / <60>	<0> / 25 / <40> / <60>				
Dutdoor Unit Dimensions H × W × D mm 550 - 800 - 285 550 - 800 - 285 714 - 800 - 285 880 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330 80 - 840 - 330<		Sound Level (SPL)*9	[Lo-Mid-Hi]	dB(A)	25 - 29 - 35	25 - 29 - 33	30 - 35 - 39	30 - 35 - 39	30 - 36 - 42				
Unit Weight kg 30 35 41 54 Air Volume Cooling m³min 36.3 34.3 45.8 50.1 55 Air Volume Cooling m³min 34.6 32.7 43.7 50.1 55 Sound Level (SPL) Cooling dB(A) 46 48 49 51 Sound Level (PWL) Cooling dB(A) 59 59 64 65 Operating Current (mx) A 6.8 8.5 13.5 14.8 1		Sound Level (PWL)		dB(A)	54	53	59	59	61				
Num Kg 30 35 41 54 Air Volume Cooling m ³ min 36.3 34.3 45.8 50.1 55 Heating m ³ min 34.6 32.7 43.7 50.1 55 Sound Level (SPL) Cooling dB(A) 45 48 48 49 51 Heating dB(A) 59 59 64 65 55 Operating Current (max) A 6.8 8.5 13.5 14.8 1		Dimensions	$H \times W \times D$	mm	550 - 800 - 285	550 - 800 - 285	714 - 800 - 285	880 - 840 - 330	880 - 840 - 330				
Heating m ³ /min 34.6 32.7 43.7 50.1 55 Sound Level (SPL) Cooling dB(A) 45 48 48 49 51 Sound Level (SPL) Cooling dB(A) 45 48 49 51 50 Sound Level (PWL) Cooling dB(A) 59 59 64 65 50 Operating Current (max) A 6.8 8.5 13.5 14.8 1 Breaker Size A 10 10 20 20 20	Unit	Weight		kg	30	35	41	54	55				
Sound Level (SPL) Cooling dB(A) 45 48 48 49 49 Heating dB(A) 46 48 49 51 50 Sound Level (PWL) Cooling dB(A) 59 59 64 65 Operating Current (max) A 6.8 8.5 13.5 14.8 1 Breaker Size A 10 10 20 20 20		Air Volume	Cooling	m³/min	36.3	34.3	45.8	50.1	50.1				
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 1 Breaker Size A 10 10 20 20 20			Heating	m³/min	34.6	32.7	43.7	50.1	50.1				
Sound Level (PWL) Cooling dB(A) 59 59 64 65 Operating Current (max) A 6.8 8.5 13.5 14.8 1 Breaker Size A 10 10 20 20		Sound Level (SPL)	Cooling	dB(A)	45	48	48	49	49				
Operating Current (max) A 6.8 8.5 13.5 14.8 1 Breaker Size A 10 10 20 20 20			Heating	dB(A)	46	48	49	51	51				
Breaker Size A 10 10 20 20		Sound Level (PWL)	Cooling	dB(A)	59	59	64	65	66				
		Operating Current (max) A			6.8		13.5	14.8	14.8				
		Breaker Size		А	10	10	20	20	20				
	Ext.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88				
Piping Max. Length Out-In m 20 20 30 30	Piping	Max. Length	Out-In	m	20	20	30	30	30				
Max. Height Out-In m 12 12 30 30		Max. Height	Out-In	m	12	12	30	30	30				
Guaranteed Operating Range Cooling*3 °C -10 ~ +46 -15 ~ +46 -15 ~ +46 -15 ~ +46 -15			Cooling*3		-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46				
	[Outdoo	r]	Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24				

 Instruction
 Iffeating
 C
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24
 -10 - +24

CONTROL TECHNOLOGIES



2+1 Back-up rotation*

The use of a three-refrigerant air conditioning system enables you to utilize the back-up, rotation, and cut-in functions. This allows you to implement effective risk management for added peace of mind.

人的## 14:33 14:33 14:33 14:33 14:33

5 1

PAR-41MAA

#28.5°C \$0

(1)

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Back-up Function

In the unlikely event that one of the units stops operation due to an abnormality, the standby unit immediately starts back-up operation. Being fully prepared for a failure guarantees that and operation is always available and gives you the confidence that your system will be reliable in any situation.

Main-1	Run	Abnormal condition
Main-2)) Run ((
Sub	Stop	Run

Rotation Function

A single remote controller is used to operate three-refrigerant air conditioning system in a rotation pattern. Reducing the burden on the equipment allows you to maintain a longer time between maintenance and increases product life.

Main-1	Run ((Stop)) Run ((
Main-2	Run ((Run	Stop
Sub	Stop	Run	Run ((

Cut-in Function

If the actual room temperature greatly differs from the set temperature and two-refrigerant air conditioning system is insufficient, the standby unit starts operation to provide support.

Main-1	Run	1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Main-2	Run	22		
Sub	Stop	Run	Stop 22	
	The standby unit starts operation if the actual temperature deviates significantly from the set temperature.			



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 R410A INDOOR UNIT		R32 OUTDOOR UNIT	
		Power Inverter	Standard Inverter
4-way ceiling-cassette PLA-ZM EA PLA-M EA	Wall-mounted PKA-M LA (L) PKA-M KA (L)	PUZ-ZM35/50	SUZ-M35
Ceiling-concealed PEAD-M	Ceiling-concealed PEA- M	PUZ-ZM60/71	SUZ-M50
Ceiling-suspended PCA-M		PUZ-ZM100/125/140/ 200/250	SUZ-M60/71
Professional Kitchen PCA-M HA	Floor-standing PSA-M	200/250	PUZ-M100/125/140

* Some indoor units cannot be used with this unit.

<image><section-header>

Connectable Combinations for Inverter Units

	Indoor Unit Capacity			
Outdoor Unit Capacity	Twin 50 : 50	Triple 33 : 33 : 33	Quadruple 25 : 25 : 25 : 25	
71	35 × 2	_	_	
100	50 × 2	_	-	
125	60 × 2	—	—	
140	71 × 2	50 × 3	_	
200	100 × 2	60 × 3	50 × 4	
250	125 × 2	71 × 3	60 × 4	
Distribution Pipe	MSDD-50TR-E MSDD-50TR2-E2 MSDD-50TR2-E2 MSDD-50WR2-E	MSDT-111R-E MSDT-111R3-E	MSDF-1111R-E MSDF-1111R2-E	

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

Power Inverter SERIES

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



SEER

PUZ-ZM





PUZ-ZM35/50VKA2

PUZ-ZM60/71VHA2

SEER 6.1

R32

PUZ-ZM100/125/140V(Y)KA2 PUZ-ZM200/250YKA2

60V

76

71V

76

50V

75

35V

Industry-leading energy efficiency

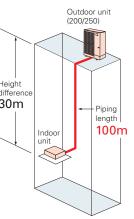
Introduction of R32 refrigerant realises improved cooling efficiency. Rating of more than 7.0 achieved for all capacity range.

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

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

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

	Piping Length	н
	R32 PUZ-ZM	di 3
35/50	50m	
60/71	55m	
100/125/140	100m	
200/250	100m	

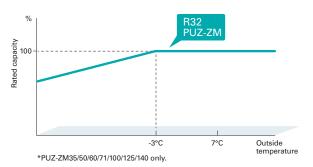


Rated heating capacity maintained down to -3°C*

100V

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

100Y



2+1 Back-up rotation*

The use of a three-refrigerant air conditioning system enables you to utilize the back-up, rotation, and cut-in functions. This allows you to implement effective risk management for added peace of mind.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Back-up Function

In the unlikely event that one of the units stops operation due to an abnormality, the standby unit immediately starts back-up operation. Being fully prepared for a failure guarantees that and operation is always available and gives you the confidence that your system will be reliable in any situation.

Main-1	Run ((Abnormal condition
Main-2	Run ()	Run
Sub	Stop	Run

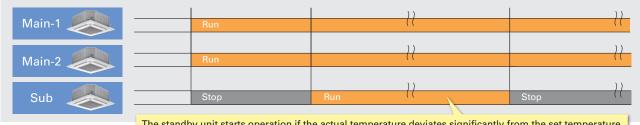
Rotation Function

A single remote controller is used to operate three-refrigerant air conditioning system in a rotation pattern. Reducing the burden on the equipment allows you to maintain a longer time between maintenance and increases product life.

Main-1	Run ((Stop	Run
Main-2	Run ()	Run	Stop
Sub	Stop	Run)) Run ((

Cut-in Function

If the actual room temperature greatly differs from the set temperature and two-refrigerant air conditioning system is insufficient, the standby unit starts operation to provide support.

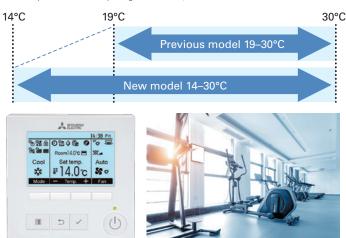


The standby unit starts operation if the actual temperature deviates significantly from the set temperature.

Extended cooling set temperature range*

In environments such as gyms where people do strenuous exercise, even if the room is cooled to an appropriate temperature, people may feel that it is hot, and they need a cooler air. To satisfy such demands, we have extended the lower limit of the cooling set temperature range from 19-30°C. to 14-30°C.

*Insulation kit (PAC-SK36HK-E) is required when indoor unit is PLA series. *Availability of this function is depending on outdoor unit, indoor unit and remote controller.



Display of model names and serial numbers*

The model names and serial numbers of the indoor/outdoor units that are connected to the MA smart remote controller can be automatically acquired and displayed through one simple operation. This eliminates the need to directly check each unit and helps with inquiries in the case of an abnormality.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Model name	Collect model names and S/N
display	0 OU PUZ-ZM200YKA2
(example)	IU1 PLA-ZM50EA2
	IU2 PLA-ZM50EA2
	IU3 PLA-ZM50EA2 IU4 PLA-ZM50EA2
	Collect data: ✓ —Address + S/N
	-Aduress + 3/N
Serial number	Collect model names and S/N
	Collect model names and S/N Ø OU 1ZU00001
display	0 U 1ZU00001 IU1 1ZA00001
display	0 OU 1ZU00001 IU1 1ZA00001 IU2 1ZA00002
Serial number display (example)	© OU 1ZU00001 IU1 1ZA00001 IU2 1ZA00002 IU3 1ZA00003
display	0 OU 1ZU00001 IU1 1ZA00001 IU2 1ZA00002 IU3 1ZA00003 IU4 1ZA00004
display	© OU 1ZU00001 IU1 1ZA00001 IU2 1ZA00002 IU3 1ZA00003

Preliminary error history*

In addition to error history, the history of preliminary abnormalities can be displayed. The feature enables the unit status check during inspection and maintenance.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Error history (Sample)

Error history (Sample)		 Preliminary error history (Sample)
	Error history 1/4	Preliminary error hist.
	Error Unt# dd/mm/yy	Error Unt# dd/mm/yy
	E0 0-1 21/10/20 PM12:34	E0 0-1 21/10/20 PM12
	E0 0-1 20/12/20 AM 1:23	E0 0-1 20/12/20 AM 1
	E0 0-1 20/11/20 PM10:55	E0 0-1 20/11/20 PM10
	E0 0-1 20/10/20 PM12:01	E0 0-1 20/10/20 PM12
	Error history menu: 🔊	Error history menu: 🕉
	🛛 🗸 🔺 🔹 Delete	▼ Page ▲ Del

Preli	minary	/ error hist. 1/8
Error		dd/mm/yy
E0		21/10/20 PM12:34
E0		20/12/20 AM 1:23
E0		20/11/20 PM10:55
E0	0-1	20/10/20 PM12:01

Delete

Display of power consumption*

It is possible to measure, acquire, and display the amount of energy used by each air conditioning system.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

< Data Collection Period >

Time data: Every 30 minutes over the past month Monthly/daily data: Monthly over the past 14 months

Every 30 minutes (example)

Energy data				
2019- 1-1	1234.5kWh 1/6			
0:30 123.4kWh	2:30 123.4kWh			
1:00 123.4kWh	3:00 123.4kWh			
1:30 123.4kWh	3:30 123.4kWh			
2:00 123.4kWh	4:00 123.4kWh			
Return: 🔊				
— Date +	🔻 Page 🔺			

Daily (example)

Energy data					
2019	- 1	1	23456.	7kWh	1/4
31	1234.5	kWh	27	1234.	5kWh
30	1234.5	kWh	26	1234.	5kWh
29	1234.5	kWh	25	1234.	5kWh
28	1234.5	kWh	24	1234.	5kWh
Retu	m: 🔊 👘				
	Page				

Energy consumption values are calculated from estimated power consumption values according to the operating conditions. They may vary from the actual power consumption values values. Please note that the power consumption of optional parts is not included except in the case of optional parts that have their power supplied directly by the outdoor unit.

 Monthly (example) 				
Ene	ergy data			
▶2019-1	123456.7kWh	1/3		
2018-12	123456.7kWh			
2018-11	123456.7kWh			
2018-10	123456.7kWh			
2018- 9	123456.7kWh			
View daily d	lata: 🗸			
🛛 🔻 Cursor 🖌				

Ensuring defrosting

Improved defrosting performance*

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Avoiding Simultaneous Defrosting

When each of multiple units is in operation for heating in the same space, these may start defrosting at the same time, resulting in a drop in the room temperature. Therefore, we have developed a new function that controls up to four-refrigerant air conditioning system to avoid simultaneous defrosting. By ensuring that defrosting is only performed by one unit at a time, it is possible to minimize any decrease in room temperature.

A Heating Defrosting

Example System Configuration

Four sets controlled by a single remote controller

Defrosting When People Are Absent

The use of the 3D i-see sensor allows a more comfortable defrosting schedule. After a large amount of frost has built up, the system will switch to defrosting when the 3D i-see sensor detects that no people are present. By minimizing defrosting while people are in the room, there is a much lower chance of a temperature drop while the room is occupied.



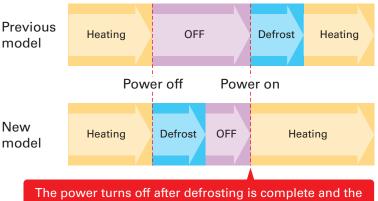
* Only compatible with 4-way cassette and 2x2 cassette models with an attached 3D i-see sensor panel. Even though people are present in the room, the defrosting process may start if all defrosting conditions are met.

B Heating	Defrosting Heating	is only performed by one unit at a time
C Heating	Defrosting Heating	allows you to minimize decreases
D Heating	Defrosting H	in room temperature!

Defrosting When Operation is Stopped

When All Sets Are Controlled Together

It takes a long time to start operation if there is an excess build-up of frost. Therefore, each unit is equipped with a control system where defrosting is performed immediately after operation is stopped when there is a large amount of frost. This allows heating to be quickly started the next day.



Easier M-NET Adapter Installation

The optional M-NET adapter, which allows centralized control (M-NET control), is now easier to install. The redesigned mounting position significantly reduces the time and effort for installation.

M-NET adapter mounting position Conventional Model New Model M-NET adapter mounting position (1)(1) PAC-SJ96MA-E PAC-SK15MA-E (2) Removed parts Removed parts (3)The (1) top panel, (2) front panel, There is no need to remove the (3) service panel, and (4) electron-(1) top panel, (2) service panel, ics box need to be removed, and (3) service plate, electronics the connector must be temporarily box, nor temporarily unplug the unplugged. connector.

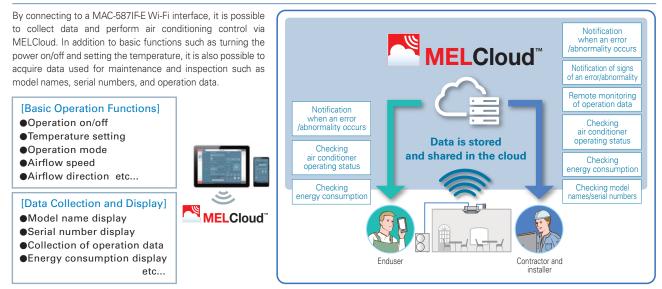
Improved chargeless piping length ZM100/125/140

PUZ-ZM100/125/140V(Y)KA used to have a chargeless pipe length of 30 m. However, starting with the V(Y)KA2 model, this has been extended to 40 m. This allows it to be used for a wider range of applications without the need for additional charging of refrigerant.

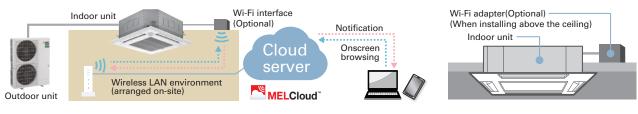
	Maximum piping length	Chargeless piping length			Maximum piping length	Chargeless piping length
PUZ-ZM 100V (Y)KA	100m	30m	\rightarrow	PUZ-ZM 100V (Y)KA2	100m	40m
PUZ-ZM 125V (Y)KA	100m	30m	\rightarrow	PUZ-ZM 125V (Y)KA2	100m	40m
PUZ-ZM 140V (Y)KA	100m	30m	\rightarrow	PUZ-ZM 140V (Y)KA2	100m	40m

Utilizing IoT for Improved Convenience*

*Availability of IoT functions are depending on MELCloud version.



MELCloud System Configuration



On-Site Installation and Configuration

•Wireless LAN adapter installation Connect the wireless LAN adapter to the indoor unit PCB and install it above the ceiling.

Wireless LAN adapter and router connection settings

Wi-Fi Adapter (Optional) Installation

OWireless LAN adapter and

server connection settings

74

Collection of operation data

All the operation data required for maintenance and inspection can be collected in a simple step. This data can then be easily checked via MELcloud. This makes it easy to check the operating status data even in cases when it is difficult to do a visual inspection. This allows you to quickly identify any system malfunctions. This function also helps to improve the quality of installation work and shortening the time required for maintenance and inspection.

Operation data that can be collected (example)

- Compressor frequency
 Compressor operating current
 Outdoor discharge temperature
- •Outdoor heat exchanger temperature •Outdoor air temperature •Compressor shell temperature
- •Sub cool •Discharge superheat •Indoor inlet temperature •Indoor heat exchanger temperature
- ●Total compressor operating time●Compressor operation count ●Indoor filter operating time

*1The total compressor operating time is displayed in units of 10 hours. The compressor operation count is displayed in units of 100. *2 Indicates the elapsed time since a filter sign reset was performed.

Demand control

It is possible to control air-conditioners to appropriately operate according to the energy supply-demand adjustment by electric power companies and each electricity rate plan of end users.

e.g. <Peak cut control> It is possible to utilize an external demand signal to reduce power consumption during peak hours. By satisfying the need for reducing peak power consumption or shifting consumption to a non-peak period, we have increased the range of options for our customers.

Notification of potential abnormality

The comprehensive analysis of operating data allows the early detection of abnormalities in small functional parts by alerting the operator of any signs of abnormal behaviour. The recognition in advance of abnormalities in each unit further improves the ease of servicing and maintenance. Since this allows a countermeasure to be implemented before the abnormality requires the unit to be completely shut down, it is an effective method for maintaining the unit in its optimum condition.

[AbnormalitiesThat HaveTheir Signs Monitored]

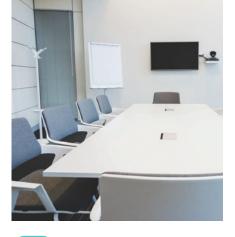
Filter blockage
Drain blockage
Refrigerant leakage
Heat exchanger blockage etc...



data is strange ..

Standard Inverter SERIES

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





SUZ-M35VA

SEER 6

35V





SUZ-M50VA

Introduction of new R32 refrigerant realises improved cooling effi-

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

Improved energy efficiency



SEER

SUZ-M PUZ-M

100Y





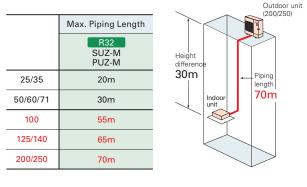
SUZ-M60/71VA

PUZ-M100/125/140V(Y)KA2

2 PUZ-M200/250YKA2

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

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



Light weight and compact size

60V

71V

50V

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



SUZ-KA50VA6 Height 880mm Weight 54kg

100V

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



SUZ-M50VA Height 714mm 18% reduction

41kg

24% reduction







PUZ-M140YKA2



Easy transportation and installation

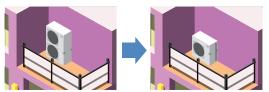




Transport efficiency improves thanks to its low height. The unit can even be transported by minivan.

Weight 101kg

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.



2+1 Back-up rotation*

The use of a three-refrigerant air conditioning system enables you to utilize the back-up, rotation, and cut-in functions. This allows you to implement effective risk management for added peace of mind.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Back-up Function

In the unlikely event that one of the units stops operation due to an abnormality, the standby unit immediately starts back-up operation. Being fully prepared for a failure guarantees that and operation is always available and gives you the confidence that your system will be reliable in any situation.

Main-1	Run ((Abnormal condition
Main-2	Run	Run
Sub	Stop	Run ((

Rotation Function

A single remote controller is used to operate three-refrigerant air conditioning system in a rotation pattern. Reducing the burden on the equipment allows you to maintain a longer time between maintenance and increases product life.

Main-1	Run ((Stop)) Run ((
Main-2	Run ((Run	Stop
Sub	Stop	Run)) Run ((

Cut-in Function

If the actual room temperature greatly differs from the set temperature and two-refrigerant air conditioning system is insufficient, the standby unit starts operation to provide support.

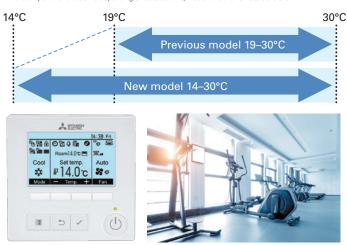


The standby unit starts operation if the actual temperature deviates significantly from the set temperature.

Extended cooling set temperature range*

In environments such as gyms where people do strenuous exercise, even if the room is cooled to an appropriate temperature, people may feel that it is hot, and they need a cooler air. To satisfy such demands, we have extended the lower limit of the cooling set temperature range from 19–30°C. to 14–30°C.

*Insulation kit (PAC-SK36HK-E) is required when indoor unit is PLA series. *Availability of this function is depending on outdoor unit, indoor unit and remote controller.



Display of model names and serial numbers*

The model names and serial numbers of the indoor/outdoor units that are connected to the MA smart remote controller can be automatically acquired and displayed through one simple operation. This eliminates the need to directly check each unit and helps with inquiries in the case of an abnormality.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

Model name	Collect model names and S/N
display	0 OU PUZ-ZM200YKA2
(example)	IU1 PLA-ZM50EA2
()	TU2 PLA-ZM50EA2
	IU3 PLA-ZM50EA2
	IU4 PLA-ZM50EA2
	Collect data: 🗸
	—Address + S/N
Serial number	Collect model names and S/N
Serial number display	Collect model names and S/N 0 OU 12U00001
display	
	0 OU 1ZU00001
display	0 OU 1ZU00001 IU1 1ZA00001
display	0 OU 1ZU00001 IU1 1ZA00001 IU2 1ZA00002
display	© OU 1ZU00001 IU1 1ZA00001 IU2 1ZA00002 IU3 1ZA00003
display	0 OU 1ZU00001 IU1 1ZA00001 IU2 1ZA00002 IU3 1ZA00003 IU4 1ZA00004

Preliminary error history*

In addition to error history, the history of preliminary abnormalities can be displayed. The feature enables the unit status check during inspection and maintenance.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

•Error history (Sample)

	, .	• •	
	Error	history	1/4
Error	Unt#	dd/mm/yy	
E0	0-1	21/10/20	PM12:34
EØ	0-1	20/12/20	AM 1:23
E0		20/11/20	
E0	0-1	20/10/20	PM12:01
Error hi	story	menu: 🔊	
🛛 💙 🛛 Pag	e 🔺		Delete

Preliminary error history (Sample)

, , (, - , - , - , - ,
Preliminary error hist. 1/8
Error Unt# dd/mm/yy
E0 0-1 21/10/20 PM12:34
E0 0-1 20/12/20 AM 1:23
E0 0-1 20/11/20 PM10:55
E0 0-1 20/10/20 PM12:01
Error history menu: 🔊
▼ Page ▲ Delete

Display of power consumption*

It is possible to measure, acquire, and display the amount of energy used by each air conditioning system.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller

< Data Collection Period >

Time data: Every 30 minutes over the past month Monthly/daily data: Monthly over the past 14 months

•Every 30 minutes (example)

/	
Energy	/ data
2019- 1-1	1234.5kWh 1/6
0:30 123.4kWh	2:30 123.4kWh
1:00 123.4kWh	3:00 123.4kWh
1:30-123.4kWh	3:30 123.4kWh
2:00 123.4kWh	4:00 123.4kWh
Return: 🕉	
– Date +	🛛 🔻 🖌 🖌

Daily (e)	example)
-----------	----------

Dany	•Daily (example)											
	Energy data											
2019	- 1	123	456.	7kWh	1/4							
31	1234. 5k	Wh	27	1234.	5kWh							
- 30	1234. 5k	Wh 📔	26	1234.	5kWh							
- 29	1234. 5k	Wh 📔	25	1234.	5kWh							
- 28	1234. 5k	Wh 📔	24	1234.	5kWh							
Retu	m: 🔊 👘											
	Page 🖌											

Energy consumption values are calculated from estimated power consumption values according to the operating conditions. They may vary from the actual power consumption values. Please note that the power consumption of optional parts is not included except in the case of optional parts that have their power supplied directly by the outdoor unit.

 Monthly (exan 	nple)	
En	ergy data	
▶2019-1	123456.7kWh	1/3
2018-12	123456.7kWh	
2018-11	123456.7kWh	
2018-10	123456.7kWh	
2018- 9	123456.7kWh	
View daily d	lata: 🗸	
🛛 🛡 Cursor 🖌		

Improved defrosting performance*

*Availability of this function is depending on outdoor unit, indoor unit and remote controller.

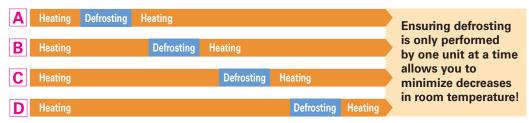
Avoiding Simultaneous Defrosting

When each of multiple units is in operation for heating in the same space, these may start defrosting at the same time, resulting in a drop in the room temperature. Therefore, we have developed a new function that controls up to four-refrigerant air conditioning system to avoid simultaneous defrosting. By ensuring that defrosting is only performed by one unit at a time, it is possible to minimize any decrease in room temperature.

Example System Configuration Four sets controlled by a single remote controller



When All Sets Are Controlled Together



Utilizing IoT for Improved Convenience*

*Availability of IoT functions are depending on MELCloud version.

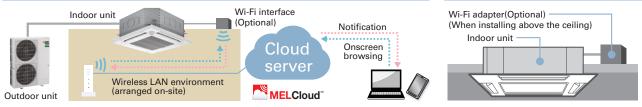
By connecting to a MAC-587IF-E Wi-Fi interface, it is possible to collect data and perform air conditioning control via MELCloud. In addition to basic functions such as turning the power on/off and setting the temperature, it is also possible to acquire data used for maintenance and inspection such as model names, serial numbers, and operation data.

[Basic Operation Functions] ●Operation on/off ●Temperature setting •Operation mode •Airflow speed •Airflow direction etc... [Data Collection and Display]

- Model name display Serial number display
- Collection of operation data
- Energy consumption display etc...

Notification when an error normality occurs Notification of signs of an error/abnormality Remote monitoring of operation data Notification when an error abnormality occu Checking air conditioner Data is stored rating status Checking air conditioner operating statu and shared in the cloud Checking ergy consumption Checking energy consumptior Checking model Contractor and

MELCloud System Configuration



MELCloud[®]

On-Site Installation and Configuration

Wireless LAN adapter installation Connect the wireless LAN adapter to the indoor unit PCB and install it above the ceiling

OWireless LAN adapter and router connection settings

Wi-Fi Adapter (Optional) Installation



This operation data is strange.

Collection of operation data

All the operation data required for maintenance and inspection can be collected in a simple step. This data can then be easily checked via MELcloud. This makes it easy to check the operating status data even in cases when it is difficult to do a visual inspection. This allows you to quickly identify any system malfunctions. This function also helps to improve the quality of installation work and shortening the time required for maintenance and inspection.

Operation data that can be collected (example)

- ●Compressor frequency ●Compressor operating current ●Outdoor discharge temperature
- ●Outdoor heat exchanger temperature ●Outdoor air temperature ●Compressor shell temperature
- •Sub cool •Discharge superheat •Indoor inlet temperature •Indoor heat exchanger temperature
- ●Total compressor operating time●Compressor operation count ●Indoor filter operating time

*1 The total compressor operating time is displayed in units of 10 hours. The compressor operation count is displayed in units of 100. *2 Indicates the elapsed time since a filter sign reset was performed. e a filter sign reset was perfo ates the elapsed time sind

Demand control

It is possible to control air-conditioners to appropriately operate according to the energy supply-demand adjustment by electric power companies and each electricity rate plan of end users.

e.g. <Peak cut control> It is possible to utilize an external demand signal to reduce power consumption during peak hours. By satisfying the need for reducing peak power consumption or shifting consumption to a non-peak period, we have increased the range of options for our customers.

Notification of potential abnormality

The comprehensive analysis of operating data allows the early detection of abnormalities in small functional parts by alerting the operator of any signs of abnormal behaviour. The recognition in advance of abnormalities in each unit further improves the ease of servicing and maintenance. Since this allows a countermeasure to be implemented before the abnormality requires the unit to be completely shut down, it is an effective method for maintaining the unit in its optimum condition.

[Abnormalities That Have Their Signs Monitored] ●Filter blockage ●Drain blockage ●Refrigerant leakage •Heat exchanger blockage etc...

Notification of potential abnormality Detects any signs of

abnormalities caused by external factors or the surrounding environment.

<example>

MELCloud[®]

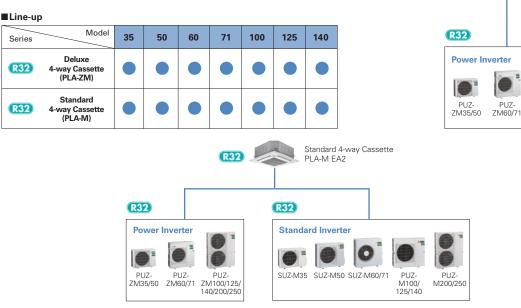
This device may stop operation due to drain blockage. Would you like to perform maintenance before it is too late?





Deluxe 4-way Cassette Line-up

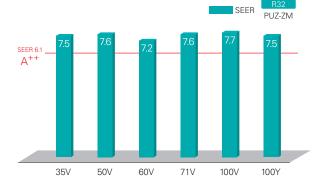
For users seeking even further energy savings, Mitsubishi Electric now offers deluxe units (PLA-ZM) to complete the line-up of models in this series, from 35-140. Compared to the standard models (PLA-M), deluxe models provide additional energy savings, contributing to a significant reduction in electricity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



Industry-leading energy efficiency

realises energy savings.

Introduction of R32 refrigerant realises improved cooling efficiency. Rating of more than 7.0 achieved for all capacity range. Introduction of R32 refrigerant reduces energy consumption and



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]

Ceiling height: 3.2m Mode: Cooling

Model name: PLA-ZM140EA2

(m/s)

PUZ-

ZM100/125/ 140/200/250



Indoor/Outdoor Unit Combinations Deluxe 4-way Cassette PLA-ZM EA2

R32

Automatic Grille Lowering Function (PLP-6EAJ, PLP-6EAJE)*

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. *Auto elevation panel(PLP-6EAJ, PLP-6EAJE) cannot be used with Plasma Quad Connect(PAC-SK51FT-E) and Insulation kit (PAC-SK36HK-E).







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

Wired Remote Controller







Easy Installation

Electrical box wiring

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

evious model (B Series)



Increased space for plumbing work

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



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%

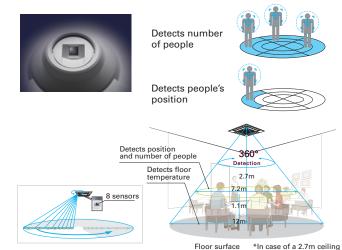
3D i-see Sensor for S & P SERIES

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 (3D i-see Sensor)

Room occupancy energy-saving mode

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

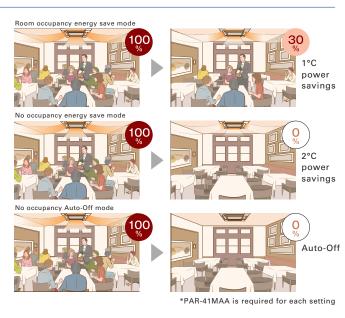
No occupancy energy-saving mode

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

No occupancy Auto-OFF mode*

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

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



Detects people's position (3D i-see Sensor)

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-41MAA or PAR-SL101A-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.

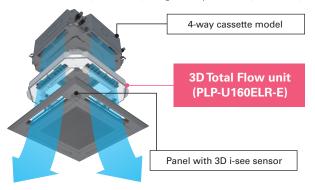


*PAR-41MAA is required for each setting.

3DTotal Flow*

3D Total Flow is an innovative function. Our original 3D i-see sensor detects the temperature of the floor, and then the newly installed 3D Total Flow unit automatically controls the airflow in the left/right directions in a smart manner.

*3D Total Flow unit(PLP-U160ELR-E) cannot be used with Plasma Quad Connect(PAC-SK51FT-E), Insulation kit(PAC-SK36HK-E), Shutter Plate(PAC-SJ37SP-E), Multi functional casement(PAC-SJ41TM-E) and High-efficiency filter element(PAC-SH59KF-E)



Horizontal louver (3D Total Flow)

In addition to the ability of conventional models to control airflow in the vertical direction, the adoption of a horizontal louver unit allows each outlet to blow air over a horizontal angle of 90 degrees. The combination of four outlets delivers 360° airflow control around the entire circumference. This now makes it possible to blow air in diagonal directions which eliminates temperature irregularities.





Swinging

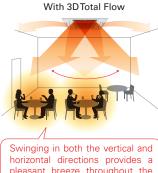
Since airflow can be controlled in the horizontal and vertical directions, you can efficiently make the entire room comfortable.

Horizontal, vertical, and diagonal airflow delivered to every corner

The combination of the vertical vanes with the horizontal louver unit makes it possible to direct airflow in any direction. This quickly makes the entire room comfortable, even when diagonal airflow is necessary



There are some areas that cannot receive air through vertical airflow control.



pleasant breeze throughout the room.

ê

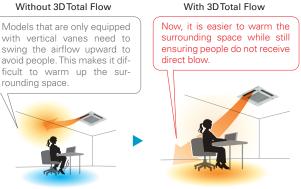
Indirect mode

When set to "Indirect" mode, the system detects the position of a person and maintains comfort while diverting airflow away from them.

Prevents direct airflow and keeps you comfortable

This function prevents people from being directly exposed to airflow while still ensuring comfort. The "Indirect" mode of 3D Total Flow keeps the downward airflow while avoiding direct blow to people, delivering a pleasant warmth.

Without 3D Total Flow



*If people are present throughout the entire airflow range of an outlet, the airflow is shifted horizontally to avoid direct airflow

When set to "Direct" mode, the system detects

the position and diverts airflow towards wherever

Direct mode

they are located.

is perfect for when you come back home on a hot day.

Delivers airflow even in diagonal directions

You can freely turn on "Direct" mode depending on personal prefereuce.

This allows for air conditioning in diagonal directions which was difficult

for models that could only swing the airflow up and down. This feature

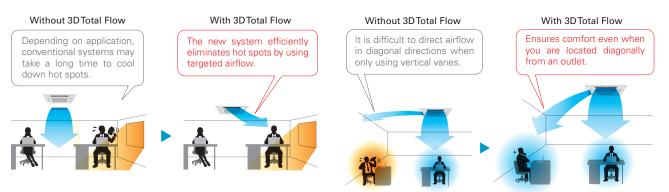


Targeting

The system can detect spaces with uneven temperatures and target them by sending air even if they are in a diagonal direction.

Detects and targets areas with uneven temperatures

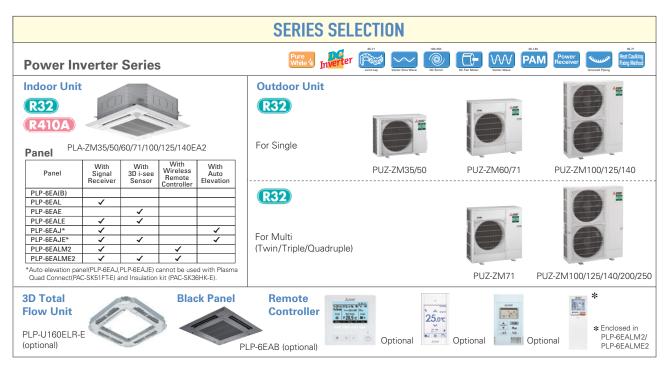
3D i-see sensor detects areas with uneven temperatures, even if they are caused by the installation orientation of the air conditioner or the influence of strong sunlight. Efficient air conditioning is possible thanks to the ability to send focused airflow to such areas, even those in a diagonal position.



Connectable to **Plasma Quad Connect**

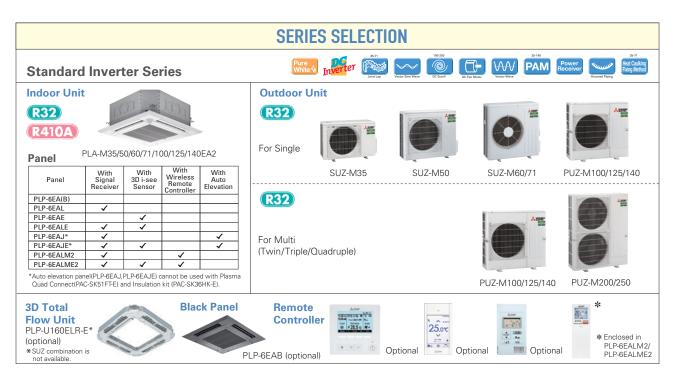
The optional Plasma Quad Connect PAC-SK51FT-E can be installed on the indoor units. *Plasma Quad Connect(PAC-SK51FTE) cannot be used with PLP-U160ELR-E(3D Total Flow unit), Insulation kit (PAC-SK36HK-E), Auto elevation panel(PLP-6EAJ, PLP-6EAJE), Multi functional casement(PAC-SJ41TM-E) and High-efficiency filter element(PAC-SH59KFE).





PLA-ZM EA2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

		Outdoor Unit Capacity																			
Indoor	Unit Combination	For Single										ForTwin					ForTriple			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	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	_	-	-	-	-	- MSDD-50TR2-E MSDD- 50WR2-E MSDT-111R3-E							SDF- R2-E				



PLA-M EA2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

		Outdoor Unit Capacity																			
Indoor	Unit Combination	For Single										ForTwin					ForTriple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standa	ard Inverter (SUZ & PUZ-M)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	bution Pipe - - - - - - - MSDD-50TR2-E MSDD- 50WR2-E MSDT-111R3-E								R3-E		SDF- R2-E									

			ure hite Å			→	Check!	MNG High Ceilin	Low Ceiling			120 5	Low Temp Cooling				
	714	Optional Optional	Titte w	Fresh-a	High-ellicien Optional	cy Long Life	Check!					AUTO Re	start				
TLA-	ZM SERIES	60-140V						\sim –									
DOWER	NVERTER		tation	Gro Cor	up M-NE	ГСОМРО	Wi-Fi)) d	ening-free, Wiri ppe reuse Reu	ng Drain se Lift Up	Pump	Flare connection	Failu	re				
TONLI	NYENTER		ck-up		1LTOI connection		Interface		se	Down		Self Reca	4				
-																	
Туре				DI 4 71 4055 4 0	DI 4 71450540	DI 4 71 4005 4 0	DI A 71 474 5 4 0		leat Pump	DI 4 71 44055 40	DI 4 714405540	DI 1 71 11 105 10	DI 4 71 44 405 40				
Indoor Uni Outdoor U				PLA-ZM35EA2 PUZ-ZM35VKA2	PLA-ZIVI50EA2 PUZ-ZIVI50VKA2	PLA-ZM60EA2 PUZ-ZM60VHA2	PLA-ZM71EA2 PUZ-ZM71VHA2		PLA-ZM100EA2 PUZ-ZM100YKA2	PLA-ZM125EA2		PLA-ZM140EA2	PLA-ZM140EA2 PUZ-ZM140YKA2				
Refrigeran				PUZ-ZIVI35VKAZ	PUZ-ZIVI5UVKAZ	PUZ-ZIVIOUVHAZ	PUZ-ZIVI7 IVHAZ	PUZ-ZIVITUUVKAZ		PUZ-ZIVI I ZSVKAZ	PUZ-ZIVITZSTKAZ	PUZ-ZIVI14UVKAZ	PUZ-ZIVI14UYNAZ				
Power	Source								wer supply								
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	0.705	1.106	1.452	1.651	2.159	2.159	3.378	3.378	3.722	3.722				
	EER			5.10	4.52	4.20	4.30	4.40	4.40	3.70	3.70	3.60	3.60				
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-				
	Annual electricity consump	tion (*2)	kWh/a	168	230	296	327	431	442	-	-	-	-				
	SEER (*4)			7.5	7.6	7.2	7.6	7.7	7.5	-	-	-	-				
		Energy efficiency class		A++	A++	A++	A++	A++	A++	-	-	-	-				
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0				
		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				
	Design load	1	kW	2.5	3.8	4.4	4.7	7.8	7.8	-	-	-	-				
	Declared Capacity	at reference design temperatur		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 at operation limit temperature	kW kW	2.5 (-10°C) 2.1 (-11°C)	3.8 (-10°C) 3.7 (-11°C)	4.4 (-10°C) 2.8 (-20°C)	4.7 (-10°C) 3.4 (-20°C)	7.8 (-10°C) 5.8 (-20°C)	7.8 (-10°C)	-	-	-	-				
	Back up heating capacity	lat operation limit temperature	kW	0.0	0.0	0.0	<u>3.4 (-20°C)</u> 0.0	0.0	5.8 (-20°C) 0.0		-	-	-				
	Annual electricity consump	tion (*2)	kWh/a	744	1086	1339	1371	2271	2272		_	-	_				
	SCOP (*4)		K V VII/G	4.7	4.9	4.6	4.8	4.8	4.8		_	-					
		Energy efficiency class		A++	A++	A++	A++	A++	A++		-	-	-				
Operating	Current(Max)		А	13.2	13.2	19.2	19.3	20.5	8.5	27.0	9.5	30.7	12.5				
Indoor	Input [cooling / Heating]	Rated	kW	0.03/0.03	0.03/0.03	0.03/0.03	0.05/0.05	0.07 / 0.07	0.07/0.07	0.08/0.08	0.08/0.08	0.10/0.10	0.10/0.10				
Unit	Operating Current(Max)	1	A	0.21	0.22	0.22	0.34	0.47	0.47	0.52	0.52	0.66	0.66				
	Dimensions	H*W*D	mm		40-840 <40-950					0-840 <40-95							
	Weight		kg	21 <5>	21 <5>	21 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>	26 <5>				
	Air Volume (Lo-Mi2-Mi1-Hi)		m ³ /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 36-39-42-44	24-26-29-32 36-39-42-44				
	Sound Level (Lo-Mi2-Mi1-Hi) (S Sound Level (PWL)	SPL)	dB(A) dB(A)	26-28-29-31 51	27-29-31-32 54	27-29-31-32 54	28-30-33-36 57	31-34-37-40 61	31-34-37-40 61	33-36-39-41 62	33-36-39-41 62	65	65				
Outdoor	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)			1338-1050-330(+40)	1338-1050-330(+40)	1338-1050-330(+40)						
Unit	Weight	11 11 12	kg	46	46	67	67	105	111	105	114	105	118				
0	Air Volume	Cooling	m ³ /min	45	45	55	55	110	110	120	120	120	120				
		Heating	m ³ /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	13	19	19	20	8	26.5	9	30	11.8				
	Breaker Size		A	16	16	25	25	32	16	32	16	40	16				
Ext.Piping	Diameter ^(*5)	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	55	55	100	100	100	100	100	100				
	Max.Height	Out-In	m	30	30	30	30	30	30	30	30	30	30				
Guaranto	d Operating Bange (Outdoor)	Cooling ^(*3)	°C	-15 - +46	-15 - +46	-15 +46	-15 +46	-15 - +46	-15 +46	-15 +46	-15 +46	-15 +46	-15 +46				

 Guaranteed Operating Range (Outdoor)
 Cooling¹¹⁰
 °C
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 -15 + 46
 *1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warning potential (GWP) would contribute less to global warning that a refrigerant with higher GWP, if leaked to the atmosphere, the impact on global warning that 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 warning yould 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 wild depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.
*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units.

Fresh-ark Factor High-efficiency

Demand Control White

		Ampere Rotation	Ь	Group Control	A-NET co	MPO Wi-F		Wiring Reuse	Drain Lift Up	Pump	Flare	Failur	e		
UIANDAN		Silent C Limit Back-up	Optional		Optional	Unterf: Option		Optional		Down 🗠	Diag	nosis Reca			
Туре								Inverter H	leat Pump						
ndoor Unit				PLA-M35EA2	PLA-M50EA2	PLA-M60EA2	PLA-M71EA2			PLA-M125EA2	PLA-M125EA2	PLA-M140EA2	PLA-M140		
Dutdoor Un	it			SUZ-M35VA	SUZ-M50VA		SUZ-M71VA				PUZ-M125YKA2				
Refrigerant ^{(*}									32						
Power	Source			Outdoor power supply											
Supply	Outdoor(V/Phase/Hz)						VAJVKA		0, YKA:400/TI	hree/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		
ocoming	Capacity	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		
	Total Input	Rated	kW	0.900	1.617	1.848	1.918	2.714	2.714	4.019	4.019	4.962	4.962		
	EER	hatou		4.00	3.40	3.30	3.70	3.50	3.50	3.01	3.01	2.70	2.70		
	Design load		kW	3.6	5.5	6.1	7.1	9.5	9.5			-	2.70		
	Annual electricity consumpti	on (*2)	kWh/a	170	285	320	331	475	475	-	-	-	-		
	SEER (*4)	011	KVVII/d	7.4	6.7	6.6	7.5	7.0	7.0	-	-		-		
	012.1	Energy efficiency class		A++	A++	A++	A++	A++	A++	-	-	-	-		
leating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0		
learnig	Supacity	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		
	Total Input	Rated	kW	0.976	1.734	1.842	2.0 - 10.2	3.018	3.018	3.638	3.638	4.2 - 15.8	4.2 - 15		
	COP	nateu	KVV	4.20	3.46	3.80	3.61	3.018	3.018	3.030	3.030	3.41	3.41		
	Design load		kW	2.6	4.3	4.6	5.8	8.0	8.0	- 3.71	- 3.71	- 3.41	3.41		
			kW	-	1				1	_	-	-	-		
	Declared Capacity	at reference design temperature		2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	6.0 (-10°C)	6.0 (-10°C)				-		
		at bivalent temperature	kW 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)	-	-	-	-		
	at operation limit temperature			2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	4.5 (-15°C)	4.5 (-15°C)	-	-	-	-		
	Back up heating capacity	(42)	kW	0.3	0.5	0.5	0.6	2.0	2.0	_	_	_			
	Annual electricity consumpti SCOP (*4)	on (*2)	kWh/a	774	1458	1459	1798	2406 4.6	2406	-	-	_	-		
	SCOP			4.7	4.1	4.4	4.5		4.6	-	-		-		
	(84	Energy efficiency class	A	A++ 8.7	A+ 13.7	A+ 15.0	A+ 15.1	A++ 20.5	A++	27.2	12.2	30.7	12.2		
	Current(Max)	8							12						
ndoor	Input [cooling / Heating]	Rated	kW	0.03/0.03	0.03/0.03	0.03/0.03	0.04 / 0.04	0.07/0.07	0.07/0.07	0.10/0.10	0.10/0.10	0.10/0.10	0.10/0.		
Jnit	Operating Current(Max) Dimensions	H*W*D	A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66 <40-950-950>	0.66	0.66		
		H-W-D	mm					04.5		298-840-840		26 <5>	00 5		
	Weight Air Volume (Lo-Mi2-Mi1-Hi)		kg m³/min	19 <5> 11-13-15-16	19 <5> 12-14-16-18	21 <5> 12-14-16-18	21 <5>	24 <5> 19-23-26-29	24 <5> 19-23-26-29	20 < 5>	26 <5>	26 < 5>	26 <5		
	Sound Level (Lo-Mi2-Mi1-Hi) (S	DI \	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	36-39-42-44	36-39-42		
	Sound Level (PWL)	F L)	dB(A)	51	54	54	56	61	61	65	65	65	65		
Outdoor	Dimensions	H*W*D	mm	550-800-285			880-840-330				981-1050-330(+40)		981-1050-330		
Unit	Weight	II W D	kg	35	41	54	55	76	78	84	85	84	85		
Jiiit	Air Volume	Cooling	m ³ /min	34.3	45.8	50.1	50.1	79	70	86	86	86	86		
		Heating	m ³ /min	34.3	43.7	50.1	50.1	79	79	92	92	92	92		
	Sound Level (SPL)	Cooling	dB(A)	48	43.7	49	49	51	51	54	54	55	55		
	Sound Lever (SFL)	Heating	dB(A)	40	40	51	51	54	54	56	56	55	55		
	Sound Level (PWL)		dB(A)	59	49 64	65	66	70	70	72	72	73	73		
		Cooling		8.5	13.5	14.8	14.8	20	11.5	26.5	11.5	30	11.5		
	Operating Current(Max) Breaker Size		A	8.5	20	20	20	32	11.5	32	11.5	30	11.5		
hat Dimin		Liquid/Cas	A						-						
xt.Piping	Diameter(*5)	Liquid/Gas	mm	6.35 / 9.52	6.35/12.7		9.52 / 15.88	9.52 / 15.88		9.52 / 15.88	9.52 / 15.88		9.52 / 15		
	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		
Juaranteed	I 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 ~ +-		
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +		

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, 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. This appliance is used at the transphere. This appliance is used at a transphere. This appliance is used at the transphere. This applicance is u

	F-see Sensor Optional Optional	AUTO VANE Fresh-air Intake High-efficiency Optional	Long Life Check Swing High Ceiling	
PLA-M SERIES POWER INVERTER	Silent Cation Limit Rotation Back-up	Group Control Control Optional	COMPO	Pump Down Connection Set Recall

Туре									leat Pump				
Indoor Unit				PLA-M35EA2				PLA-M100EA2					
Outdoor Unit				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2	PUZ-ZM125VKA2	PUZ-ZM125YKA2	PUZ-ZM140VKA2	PUZ-ZM140YKA2
Refrigerant(*1)								R	32				-
Power So	ource							Outdoor po	wer supply				
Supply Ou	utdoor(V/Phase/Hz)						VKA · V	HA:230/Single/	/50, YKA:400/T	hree/50			
	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
11		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
1 1	Total Input	Rated	kW	0.751	1.175	1.523	1.716	2.209	2.209	3.396	3.396	3.746	3.746
<u> </u>	EER			4.79	4.25	4.00	4.14	4.30	4.30	3.68	3.68	3.58	3.58
Cooling	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-
	Annual electricity consump	otion(*2)	kWh/a	172	234	301	336	437	448	-	-	-	-
	SEER(*4)			7.3	7.4	7.1	7.4	7.6	7.4	-	-	-	-
		Energy efficiency class		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
			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
Heating	Design load		kW	2.5	3.8	4.4	4.7	7.8	7.8	-	-	-	-
(Average	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)	-	-	-	-
Season)		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)	3.4 (-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	0.0	-	-	-	-
	Annual electricity consump	otion ^(*2)	kWh/a	798	1187	1422	1429	2496	2497	-	-	-	-
	SCOP ^[*4]			4.3	4.4	4.3	4.6	4.3	4.3	-	-	-	-
		Energy efficiency class		A+	A+	A+	A++	A+	A+	-	-	-	-
Operating Cu	urrent(Max)		A	13.2	13.2	19.2	19.3	20.5	8.5	27.2	9.7	30.7	12.5
Ing	put [cooling / Heating]	Rated	kW	0.03/0.03	0.03/0.03	0.03/0.03	0.04/0.04	0.07/0.07	0.07 / 0.07	0.10/0.10	0.10/0.10	0.10/0.10	0.10/0.10
Op	perating Current(Max)		A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66
Di	mensions	H*W*D	mm		258-840-840	<40-950-950>				298-840-840	<40-950-950>		
	eight	·	kg	19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>
Unit Air	ir Volume (Lo-Mid-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
	ound Level (Lo-Mid-Hi) (SPL	-)	dB(A)	26-28-29-31		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
	ound Level (PWL)		dB(A)	51	54	54	56	61	61	65	65	65	65
	mensions	H*W*D	mm	630-809-300				1338-1050-330(+40)				1338-1050-330(+40)	
	eight		kg	46	46	67	67	105	111	105	114	105	118
Aiı	ir 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
	ound Level (SPL)		dB(A)	44	44	47	47	49	49	50	50	50	50
Unit			dB(A)	46	46	49	49	51	51	52	52	52	52
	ound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70
	perating Current(Max)		A	13	13	19	19	20	8	26.5	9	30	11.8
	reaker Size		A	16	16	25	25	32	16	32	16	40	16
	iameter ^(*5)	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
Ext.Piping Ma		Out-In	m	50	50	55	55	100	100	100	100	100	100
	ax.Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Cuerenteed (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
Guaranteeu C		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 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 diassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than -5°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.
*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units.

PEA SERIES

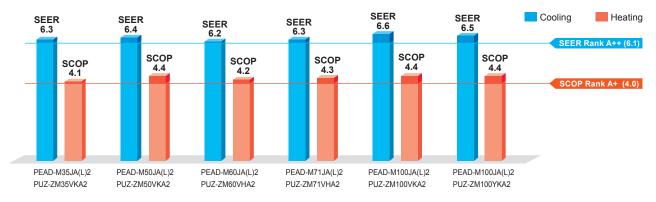
buildings with minimum ceiling installation space.



ErP Lot-10 compliant, Achieving High Energy Efficiency



The shape of fan wing and casing is improved to provide more smooth air flow, increasing the operation efficiency. All models under 12kW(M35~M100) are complied with ErP Lot 10 and energy rankings of A++ for cooling and A+ for heating. This contributes to a reduction in the cost of annual electricity.



Compact Indoor Units

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

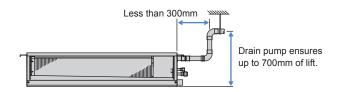
Selectable Static Pressure Levels

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

Drain Pump is Optionally Selectable

The line-up consists of two types: models with or without a built-in drain pump, thus allowing more freedom in piping design.

PEAD-M JA2 Built-in drain pump PEAD-M JAL2 No drain pump



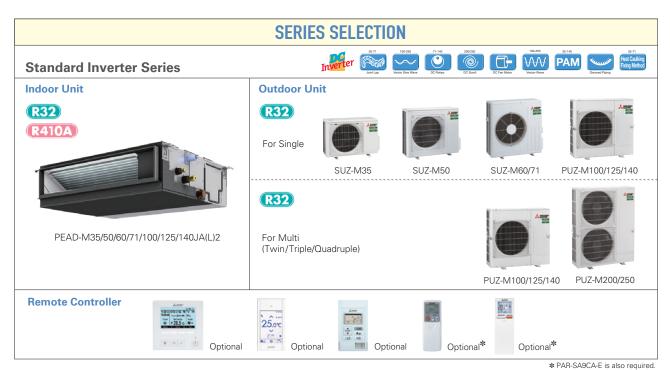
Connectable to **Plasma Quad Connect**

The optional Plasma Quad Connect MAC-100FT-E can be installed on the indoor unit's air inlet side. For installation, PQ attachment or PQ box is required.

	SERIES SELECTIO	N		
Power Inverter Series	Inverter	100-250 71-140 200250 Vector Size Ways DC Rotary DC Social	DC Fan Motor	35-140 PAM Conserved Paping Concerned Paping
Indoor Unit	Outdoor Unit			
R32 R410A	R32			
	For Single			
		PUZ-ZM35/50 P	UZ-ZM60/71	PUZ-ZM100/125/140
	R32			
PEAD-M35/50/60/71/100/125/140JA(L)2	For Multi (Twin/Triple/Quadruple)			0
			PUZ-ZM71	PUZ-ZM100/125/140/200/25
Remote Controller	25.oc Optional Opti	onal Optional*	Option	ol*
Орнона		Optional	Option	* PAR-SA9CA-E is also requir

PEAD-M JA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

										Outd	oor Ui	nit Cap	pacity								
Indoor	Unit Combination				Fo	or Sing	le						For	Fwin			F	orTrip	le	For Qu	adruple
			50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUZ-ZM)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe		-	-	-	-	-	-	-	-	N	ISDD-	50TR2	-E	MS 50W	DD- R2-E	MSI	DT-111	R3-E		DF- R2-E



PEAD-M JA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

									Outd	oor Ui	nit Cap	acity								
Indoor Unit Combination				Fo	or Sing	le						For	「win			F	orTrip	le	For Qu	adruple
	35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standard Inverter (PUZ-M&SUZ)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MSD	D-50T	R2-E	MS 50W	DD- /R2-E	MSI	DT-111	R3-E		DF- R2-E

PEAD-M SERIES	
DOWER INVERTER	

Туре

Demand Control	Long Life	Check!	З алто		Çi≑Ö ACO	4 Auto Restart	Low Temp Cooling	Silent	Ampere Limit	Rotation Back-up	Optional	Group Control	M-NET connection	Wi-Fi)) Interface	COMPO
Cleaning-ree,	Wiring Reuse	Drain Lift Up	Pump Down	Flare connection	Self Diagnosis	Failure Recall									

Inverter Heat Pump

Indoor Uni										PEAD-M125JA(L)2			
Outdoor U				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2	PUZ-ZM125VKA2	PUZ-ZM125YKA2	PUZ-ZM140VKA2	PUZ-ZM140YKA2
Refrigeran	t ^(*1)								32				
Power	Source							Outdoor po	ower supply				
Supply	Outdoor(V/Phase/Hz)						VKA-V	HA:230/Single/	50, YKA:400/T	hree/50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min-Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.3	6.2 - 15.3
	Total Input	Rated	kW	0.837	1.190	1.487	1.775	2.261	2.261	3.333	3.333	3.701	3.701
	EER ^(*4)			4.30	4.20	4.10	4.00	4.20	4.20	3.75	3.75	3.62	3.62
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-
	Annual electricity consump	otion (*2)	kWh/a	199	273	342	393	499	510	-	-	-	-
	SEER(*4)(*5)			6.3	6.4	6.2	6.3	6.6	6.5	-	-	-	-
		Energy efficiency class		A++	A++	A++	A++	A++	A++	-	-	-	-
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
		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	0.911	1.363	1.590	1.904	2.545	2.545	3.763	3.763	4.102	4.102
	COP(*4)			4.50	4.40	4.40	4.20	4.40	4.40	3.72	3.72	3.90	3.90
	Design load		kW	2.4	3.8	4.4	4.9	7.8	7.8	-	-	-	-
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.9 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
		at bivalent temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.9 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	-	-	-	-
		at operation limit temperature	kW	2.2 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.4 (-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	0.0	-	-	-	-
	Annual electricity consumption(*2)		kWh/a	816	1202	1459	1585	2469	2470	-	-	-	-
	SCOP(*4)(*5)			4.1	4.4	4.2	4.3	4.4	4.4	-	-	-	-
		Energy efficiency class		A+	A+	A+	A+	A+	A+	-	-	-	-
Operating	Current(Max)		A	14.2	14.4	20.9	20.9	22.3	10.3	28.8	11.3	32.6	14.4
Indoor	Input [cooling / Heating]	Rated	kW	0.05	0.07	0.08	0.09	0.14	0.14	0.20	0.20	0.21	0.21
Unit	Operating Current(Max)		A	1.16	1.35	1.85	1.9	2.25	2.25	2.34	2.34	2.63	2.63
		H*W*D	mm							250×1400×732			
	Weight		kg	25(24.5)	26.5(25.5)	29.5(29)	29.5(29)	37(36)	37(36)	38(37)	38(37)	42(41)	42(41)
	Air Volume (Lo-Mid-Hi)		m³/min			14.5-18.0-21.0			23.0-28.0-32.0	28.0-34.0-37.0			29.5-35.5-40.0
	External Static Pressure ^(*7)	-	Pa		-<100>-<150>			-<100>-<150>				-<100>-<150>	
	Sound Level (Lo-Mid-Hi) (SPL	.)	dB(A)	24-29-32	27-33-35	26-32-35	26-32-37	31-36-39	31-36-39	35-39-41	35-39-41	34-38-41	34-38-41
0.11	Sound Level (PWL)	H*W*D	dB(A)	54	58 630-809-300	56	58	62 1338-1050-330(+40)	62	66	66	66	66 1338-1050-330(+40
Outdoor	Dimensions	H*W*D	mm	630-809-300									
Unit	Weight	lo r	kg	46	46	67	67	105	111	105	114	105	118
	Air Volume		m³/min m³/min	45	45	55	55	110	110	120	120	120	120
				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
			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	13	19	19	20	8	26.5	9	30	11.8
F (D ¹)	Breaker Size		A	16	16	25	25	32	16	32	16	40	16
Ext.Piping	Diameter ^(*6)	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	100	100
	NA 11 1 1 4												
	Max.Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guarantee	Max.Height ed Operating Range (Outdoor)	Out-In Cooling ^(*3) Heating	m °C °C	30 -15 ~ +46 -11 ~ +21	30 -15 ~ +46 -11 ~ +21	30 -15 ~ +46 -20 ~ +21							

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP is refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP is refrigerant with higher GWP is refrigerant fluid would be leaked to the atmosphere. This septiance is used and where it is located.
*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 M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa.
*7 The factory setting of ESP is shown without < >.

	Demand Control Optional			Auto Restart Cooling	Silent Silent	Grou Optional	p ol M-NET connection	Wi-Fi)) Interface	СОМРО
PEAD-M SERIES STANDARD INVERTER	Wiring Reuse	Drain Lift Up	Flare connection Diagnosis	Failure Recal					

Туре								Inverter H	leat Pump				
Indoor Un	it			PEAD-M35JA(L)2	PEAD-M50JA(L)2	PEAD-M60JA(L)2	PEAD-M71JA(L)2	PEAD-M100JA(L)2	PEAD-M100JA(L)2	PEAD-M125JA(L)2	PEAD-M125JA(L)2	PEAD-M140JA(L)2	PEAD-M140JA(L)2
Outdoor L	Init			SUZ-M35VA	SUZ-M50VA							PUZ-M140VKA2	
Refrigerar	t ^(*1)								32				
Power	Source							Outdoor po	ower supply				
Supply	Outdoor(V/Phase/Hz)						VA·V	KA:230/Single/5		ree/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	0.923	1.351	1.694	2.028	2.878	2.878	4.019	4.019	4.768	4,768
	EER(*4)			3.90	3.70	3.60	3.50	3.30	3.30	3.01	3.01	2.81	2.81
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	
	Annual electricity consump	otion (*2)	kWh/a	199	277	345	397	538	538	-	-	-	-
	SEER ^{(*4)(*5)}			6.3	6.3	6.1	6.2	6.1	6.1	-	-	-	-
	0220	Energy efficiency class		A++	A++	A++	A++	A++	A++	-	-	-	-
Heating	Capacity		kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0
	1		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		kW	1.025	1.463	1.842	2.105	2.947	2.947	3.739	3.739	4.155	4.155
	COP ^(*4)			4.00	4.10	3.80	3.80	3.80	3.80	3.61	3.61	3.61	3.61
	Design load		kW	2.6	4.3	4.6	5.8	8.0	8.0	-	-	-	-
	Declared Capacity		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)	-	-	-	-
	Doolaroa oapaoley		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)	-	-	-	-
			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)			-	
	Back up heating capacity	at operation whit temperature	kW	0.3	0.5	0.5	0.6	2.0	2.0	_		-	-
	Annual electricity consump	ation (*2)	kWh/a	884	1417	1558	1973	2725	2725	-	-	-	
	SCOP ^{(*4)(*5)}		KVVII/a	4.1	4.2	4.1	4.1	4.1	4.1	-	-	-	
	3001	Energy efficiency class		A+	4.2 A+	A+	4.1 A+	4.1 A+	4.1 A+				
Operating	Current(Max)		A	9.7	14.9	16.7	16.7	22.3	13.8	27.8	12.8	31.4	12.9
Indoor	Input [cooling / Heating]		kW	0.05	0.07	0.08	0.09	0.14	0.14	0.20	0.20	0.21	0.21
Unit	Operating Current(Max)		A	1.16	1.35	1.85	1.9	2.25	2.25	2.34	2.34	2.63	2.63
onne	Dimensions	H*W*D	mm		250×900×732							250×1600×732	
	Weight		kg	25(24.5)	26.5(25.5)	29.5(29)	29.5(29)	37(36)	37(36)	38(37)	38(37)	42(41)	42(41)
	Air Volume (Lo-Mid-Hi)		m³/min		12.0-14.5-17.0			23.0-28.0-32.0				29.5-35.5-40.0	
	External Static Pressure(*7)		Pa		-<100>-<150>			>-<100>-<150>				-<100>-<150>	
	Sound Level (Lo-Mid-Hi) (SPL	_)	dB(A)	24-29-32	27-33-35	26-32-35	26-32-37	31-36-39	31-36-39	35-39-41	35-39-41	34-38-41	34-38-41
	Sound Level (PWL)		dB(A)	54	58	56	58	62	62	66	66	66	66
Outdoor	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)	981-1050-330(+40)	981-1050-330(+40
Unit	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	79	86	86	86	86
		Heating	m³/min	32.7	43.7	50.1	50.1	79	79	92	92	92	92
	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	11.5	26.5	11.5	30	11.5
	Breaker Size		A	16	20	20	20	32	16	32	16	40	16
Ext.Pipin	Diameter ^(*6)	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
Guarante	ed 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

contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaded to the atmosphere, the impact on global warming used be stoff inces higher than 1 kg of CD₂, of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the period how the applicable to the atmosphere, the impact on global warming used be 550 times higher than 1 kg of CD₂, of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the period how the applicable to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CD₂, of 22 Energy consumption based on standard test results. Actual energy consumption based on standard test results. Actual energy consumption will depend on how the applicable circuit source 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 M35-71 are measured at ESP 35Pa, for M100 at ESP 37Pa, for M125/140 at ESP 50Pa. *5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012. *6 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units. *7 The factory setting of ESP is shown without < >. CO2, over a period

PEA SERIES

The PEA series is a large capacity ceiling-concealed type indoor units which are visually discreet blending into various environments. The PEA model realizes improved energy efficiency with a patented fan called Turbo In Sirocco fan. A wider option of external static pressure up to 250Pa allows authentic ducted air-conditioning with an elegant interior layout. In addition, the PEA series has a separated structure that enables delivery into a narrow space.

PEA-M200/250LA2



The separated structure increases the efficiency of delivery into a narrow space.

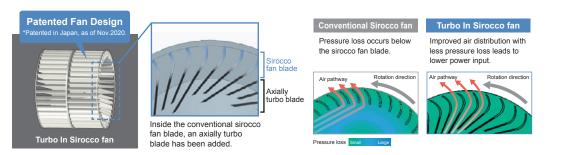
Improved Energy Efficiency

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



Low input with Fan Design

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



Wide range of external static pressure allows flexible duct design

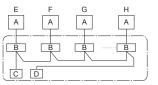
250Pa setting is newly added enabling total of five static pressure level. The ability to select additional static pressure enables long duct and more freedom in design.

PEA-M200/250LA2 75/<100>/<150>/<200>/<250> Pa

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

PAR-41MAA Group Control

The PAR-41MAA remote controller can control up to 16 systems as a group, and is ideal for supporting the integrated management of building air conditioners.



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





lype					leat Pump
Indoor Uni				PEA-M200LA2	PEA-M250LA2
Outdoor U				PUZ-ZM200YKA2	PUZ-ZM250YKA2
Refrigeran				R	32
ower	Source			Separate p	ower supply
Supply	Outdoor(V/Phase/Hz)			400/T	hree/50
Cooling	Capacity	Rated	kW	19.0	22.0
		Min-Max	kW	9.2 - 22.4	9.9 - 27.0
	Total Input	Rated	kW	5.757	7.213
	EER			3.30	3.05
eating	Capacity	Rated	kW	22.4	27.0
-		Min-Max	kW	7.1 - 25.0	7.3 - 31.0
	Total Input	Rated	kW	6.400	7.941
	COP			3.50	3.40
perating	Current(Max)		A	27.3	27.3
idoor	Input [cooling / Heating]	Rated	kW	0.32	0.48
nit	Operating Current(Max)		A	4.8	4.8
	Dimensions	H×W×D	mm	470-13	70-1120
	Weight		kg	8	38
	Air Volume (Lo-Mid-Hi)	Normal airflow mode	m³/min	42.0-51.0-60.0	50.0-61.0-72.0 (75Pa-200Pa)
				42.0 31.0 00.0	42.0-51.0-60.0 (250Pa)
		High airflow mode	m ³ /min	50.0-61.0-72.0 (75Pa-200Pa)	58.0-72.0-84.0 (75Pa-150Pa)
				42.0-51.0-60.0 (250Pa)	50.0-61.0-72.0 (200Pa)
					42.0-51.0-60.0 (250Pa)
	External Static Pressure		Pa		0)/(200)/(250)
	Sound Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	34.5-39.0-43.0	37.5-42.0-46.0
	Sound Level (PWL)		dB(A)	69.0-70.0-70.0	71.0-71.0-72.0
utdoor	Dimensions	H×W×D	mm	1338-1050-330(+40)	1338-1050-330(+40)
nit	Weight		kg	137	138
	Air Volume	Cooling	m³/min	140	140
		Heating	m³/min	140	140
	Sound Level (SPL)	Cooling	dB(A)	59	59
		Heating	dB(A)	62	62
	Sound Level (PWL)	Cooling	dB(A)	77	77
	Operating Current(Max)		A	22.5	22.5
	Breaker Size		A	32	32
xt.Piping	Diameter ^(*3)	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
uarante	ed Operating Range (Outdoor)	Cooling ^(*2)	°C	-15 ~ 46	-15 ~ 46
		Heating	°C	-20 ~ 21	-20 ~ 21

1 20 2 1 20 2



Туре				Inverter He	at Pump
Indoor Un	it			PEA-M200LA2	PEA-M250LA2
Outdoor L				PUZ-M200YKA2	PUZ-M250YKA2
Refrigerar	1t ^(*1)			R3	2
Power	Source			Separate por	
Supply	Outdoor(V/Phase/Hz)			400/Thr	
Cooling	Capacity	Rated	kW	19.0	22.0
		Min-Max	kW	9.2 - 22.4	9.9 - 27.0
	Total Input	Rated	kW	6.089	7.333
	EER			3.12	3.00
Heating	Capacity	Rated	kW	22.4	27.0
		Min-Max	kW	6.8 - 25.0	7.3 - 31.0
	Total Input	Rated	kW	6.588	8.181
	COP			3.40	3.30
Operating	Current(Max)		A	27.3	27.3
Indoor	Input [cooling / Heating]	Rated	kW	0.32	0.48
Unit	Operating Current(Max)		A	4.8	4.8
	Dimensions	H×W×D	mm	470-137	
	Weight	-	kg	88	
	Air Volume (Lo-Mid-Hi)	Normal airflow mode	m³/min	42.0-51.0-60.0	50.0-61.0-72.0 (75Pa-200Pa) 42.0-51.0-60.0 (250Pa)
		High airflow mode	m³/min	50.0-61.0-72.0 (75Pa-200Pa) 42.0-51.0-60.0 (250Pa)	58.0-72.0-84.0 (75Pa-150Pa) 50.0-61.0-72.0 (200Pa) 42.0-51.0-60.0 (250Pa)
	External Static Pressure		Pa	75/(100)/(150)	
	Sound Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	34.5-39.0-43.0	37.5-42.0-46.0
	Sound Level (PWL)		dB(A)	69.0-70.0-70.0	71.0-71.0-72.0
Outdoor	Dimensions	H×W×D	mm	1338-1050-330(+40)	1338-1050-330(+40)
Unit	Weight		kg	129	138
	Air Volume	Cooling	m³/min	140	140
		Heating	m³/min	140	140
	Sound Level (SPL)	Cooling	dB(A)	58	59
		Heating	dB(A)	60	62
	Sound Level (PWL)	Cooling	dB(A)	78	77
	Operating Current(Max)		A	22.5	22.5
	Breaker Size		A	32	32
Ext.Pipin	g Diameter ^(*3)	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
Guarante	ed Operating Range (Outdoor)	Cooling ^(*2)	°C	-15 ~ 46	-15 ~ 46
		Heating	°C	-20 ~ 21	-20 ~ 21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of 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 Optional air protection guide is required where ambient temperature is lower than -5⁶C.
*3 Joint pipe is required depending on installed refrigerant pipes, outdoor units.



New Design (M35-50)

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



New Wireless Remote Controller Included

The PKA-KAL2 series wireless remote controller has been updated. It now comes with a new stylish remote controller that fits comfortably in your hand and has a wide range of useful functions.



Quietness (M35-50)

The noise level has been signifi-

cantly reduced compared to the

conventional model by reviewing

the unit structure and improving

36dB

M35

HA(L)

4

34dB

M35

LA(L)

the line flow fan.

PKA-M35/50

SPL[Lo]

Previous model

Main Functions of new Wireless Remote Controller •Weekly Timer •Backlight •Dual set point •Battery replacement sign etc...

36dB

M50 HA(L) . 34dB

M50

LA(L

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

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



Airflow Control – Horizontal Airflow – (M35-50)

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

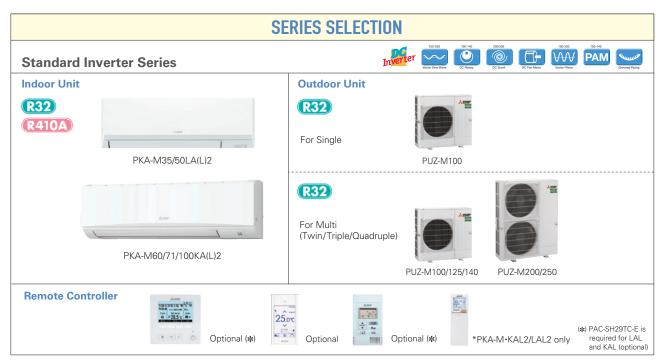
Airflow distributions

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



PKA-M LA(L)2/KA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

									Outd	oor Ui	nit Cap	pacity								
Indoor Unit Combination				Fo	or Sing	le						For	Twin			F	orTrip	le	For Qu	adruple
	35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)	35x1	50x1	60x1	71x1	100x1	-	-	-	-	35x2	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4
Distribution Pipe	-	-	-	-	-	-	-	-	-	N	ISDD-	50TR2-	-E	MSDD- 50WR2-E	-	MSI	DT-111	R3-Е		DF- R2-E



PKA-M LA(L)2/KA(L)2 Indoor Unit Combinations Indoor unit combinations shown below are possible.

		Outdoor Unit Capacity																			
Indoc	or Unit Combination				Fo	or Sing	le				ForTwin						ForTriple			For Quadruple	
		35 50 60 71 100 125 140 200 250 71 100 125 1								140	200	250	140	200	250	200	250				
Stand	dard Inverter (PUZ-M)	-	-	-	-	100x1	-	-	-	-	-	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60×4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MSD	D-50T	R2-E	MSDD- 50WR2-E	-	MSI	DT-111	R3-E		DF- R2-E

PKA-M SERIES	Demand Control Control	Check State Control Co
POWER INVERTER	Wi-Fi)) Interface	Wiring Drain Pump Fore Down Connection Failure Recall
Type		Inverter Heat Pump

					Inverter F	leat Pump		
			PKA-M35LA(L)2	PKA-M50LA(L)2	PKA-M60KA(L)2	PKA-M71KA(L)2	PKA-M100KA(L)2	PKA-M100KA(L)2
			PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2
						32		
ce						ower supply		
oor(V/Phase/Hz)						50, YKA:400/Three/50		
pacity	Rated	kW	3.6	4.6	6.1	7.1	9.5	9.5
pacity	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
tal Input	Rated	kW	0.857		1.560	1.863	2.435	
R	nated	KVV	4.20	1.239				2.435
				3.71	3.91	3.81	3.90	3.90
sign load		kW	3.6	4.6	6.1	7.1	9.5	9.5
nual electricity consum	nption (*2)	kWh/a	194	244	314	365	508	519
ER ^(*4)			6.5	6.6	6.8	6.8	6.5	6.4
	Energy efficiency class		A++	A++	A++	A++	A++	A++
pacity	Rated	kW	4.1	5.0	7.0	8.0	11.2	11.2
	Min-Max	kW	1.6 - 5.2	2.5 - 7.0	2.8 - 8.2	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0
tal Input	Rated	kW	1.040	1.344	1.732	2.116	3.102	3.102
P			3.94	3.72	4.04	3.78	3.61	3.61
sign load		kW	2.4	3.3	4.4	4.7	7.8	7.8
clared 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)
		kW	2.2 (-11°C)	3.2 (-11°C)	2.8 (-20°C)	3.4 (-20°C)	5.8 (-20°C)	5.8 (-20°C)
ck up heating capacity	at operation innet temperature	kW	0.0	0.0	0.0	0.0	0.0	0.0
nual electricity consum	antion (*2)	kWh/a	829	1074	1464	1530	2477	2478
OP(*4)	iption	K V VII/a	4.0	4.3	4.2	4.3	4.4	4.4
OP	Energy efficiency class		4.0 A+	4.3 A+	4.2 A+	4.3 A+	4.4 A+	4.4 A+
(8.4.)	Energy emiciency class			13.4			20.6	
ent(Max)		A	13.4		19.4	19.4		8.6
t [cooling / Heating]	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
ating Current(Max)	100000	A	0.35	0.35	0.43	0.43	0.57	0.57
ensions	H*W*D	mm	299-898-237	299-898-237	365-1170-295	365-1170-295	365-1170-295	365-1170-295
ht		kg	12.6	12.6	21	21	21	21
olume (Lo-Mi2-Mi1-Hi)		m³/min	7.5-8.2-9.2-10.9	7.5-8.2-9.2-10.9	18-20-22	18-20-22	20-23-26	20-23-26
nd Level (Lo-Mi2-Mi1-Hi	i) (SPL)	dB(A)	34-37-40-43	34-37-40-43	39-42-45	39-42-45	41-45-49	41-45-49
d Level (PWL)		dB(A)	60	60	64	64	65	65
ensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)	1338-1050-330(+40)	1338-1050-330(+4)
ht		kg	46	46	67	67	105	111
olume	Cooling	m³/min	45	45	55	55	110	110
	Heating	m³/min	45	45	55	55	110	110
d Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49
	Heating	dB(A)	46	46	49	49	51	51
d Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69
ating Current(Max)		A	13	13	19	19	20	8
ker Size		A	16	16	25	25	32	16
	Liquid/Gas	mm						9.52 / 15.88
								100
								30
erating hange (Outdoor								-15 ~ +46 -20 ~ +21
eter ^(*5) Length Height erating R	lange (Outdoor	Liquid/Gas Out-In Out-In tange (Outdoor) Cooling ^(*a) Heating	Out-In m Out-In m tange (Outdoor) Cooling ^{rog} °C Heating °C	Out-In m 50 Out-In m 30 Cooling**9 °C -15 ~ +46 Heating °C -11 ~ +21	Out-In m 50 50 Out-In m 30 30 30 Cooling ¹⁷⁰ °C -15 ~ +46 -15 ~ +46 Heating °C -11 ~ +21 -11 ~ +21	Out-In m 50 50 55 Out-In m 30 30 30 Cooling*** °C -15 ~ +46 -15 ~ +46 -15 ~ +46 Heating °C -11 ~ +21 -20 ~ +21 -20 ~ +21	Out-In m 50 50 55 55 Out-In m 30 30 30 30 30 tange (Outdoor) Cooling ^{*30} °C -15 ~ +46 -15 ~ +46 -15 ~ +46 -15 ~ +46 Heating °C -11 ~ +21 -20 ~ +21 -20 ~ +21 -20 ~ +21	Out-In m 50 50 55 100 Out-In m 30 30 30 30 30 Cooling ¹⁰ °C -15 ~ +46 -15 ~ +46 -15 ~ +46 -15 ~ +46 -15 ~ +46 Heating °C -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 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 diassemble the product vorself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report. *2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located. *3 Optional in protection guide is required where ambient temperature is lower than -5°C. *4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012. *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units.

PKA-M SERIES	Demand Control Operand Operand		aco 55 Auto Restart Low Temp Silent € Ampere Back-up Cooling Silent € Limit Back-up	Control Optional
STANDARD INVERTER	Wi-Fi)) Interface Costonal	Wiring Reuse Optional Drain Lift Up Optional Optional Connection	Set Recall	

Туре				Inverter H	eat Pump
ndoor Unit					00KA(L)2
utdoor Unit				PUZ-M100VKA2	PUZ-M100YKA2
efrigerant ^(*1)					32
	urce				wer supply
	tdoor(V/Phase/Hz)			VKA+VHA:230/Single/	50, YKA:400/Three/50
ooling 0	Capacity	Rated	kW	9.5	9.5
		Min-Max	kW	4.0 - 10.6	4.0 - 10.6
	Total Input	Rated	kW	2.941	2.941
E	EER			3.23	3.23
	Design load		kW	9.5	9.5
	Annual electricity consump	tion (*2)	kWh/a	573	573
5	SEER ^(*4)			5.8	5.8
		Energy efficiency class		A+	A+
eating (Capacity		kW	11.2	11.2
			kW	2.8 - 12.5	2.8 - 12.5
	Total Input	Rated	kW	3.284	3.284
0	COP			3.41	3.41
	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)
Ē	Back up heating capacity		kW	2.0	2.0
4	Annual electricity consump	tion (*2)	kWh/a	2780	2780
5	SCOP ^(*4)			4.0	4.0
		Energy efficiency class		A+	A+
perating Cu	rrent(Max)		A	20.6	12.1
door Inp	out [cooling / Heating]	Rated	kW	0.08 / 0.07	0.08 / 0.07
nit Op	perating Current(Max)		A	0.57	0.57
Dir	mensions	H*W*D	mm	365-1170-295	365-1170-295
	eight		kg	21	21
	r Volume (Lo-Mi2-Mi1-Hi)		m³/min	20-23-26	20-23-26
	und Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	41-45-49	41-45-49
	und Level (PWL)		dB(A)	65	65
	mensions	H*W*D	mm	981-1050-330 (+40)	981-1050-330(+40)
	eight		kg	76	78
Air	r Volume	Cooling	m³/min	79	79
		Heating	m³/min	79	79
So	und Level (SPL)	Cooling	dB(A)	51	51
		Heating	dB(A)	54	54
	und Level (PWL)	Cooling	dB(A)	70	70
	perating Current(Max)		A	20.0	11.5
	eaker Size		A	32	16
t.Piping Dia		Liquid/Gas	mm	9.52 / 15.88	9.52 / 15.88
	ax.Length	Out-In	m	55	55
Ma	ax.Height	Out-In	m	30	30
uaranteed C	Operating Range (Outdoor)	Cooling ^(*3)	°C	-15 ~ +46	-15 ~ +46
			°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 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 diassemble the product vourself 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. *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.



Stylish Indoor Unit Design

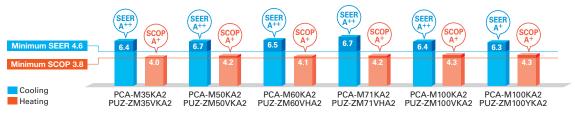
A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.





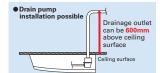
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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



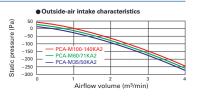
Optional Drain Pump for Full-capacity Models

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



Outside-air Intake

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



Equipped with 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

Equipped with Automatic Air-speed Adjustment

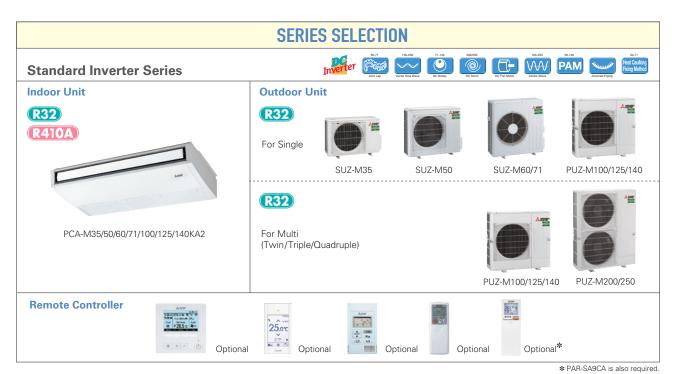
In addition to the conventional 4-speed setting, units are now equipped with an automatic air-speed adjustment mode. This setting automatically adjusts the air-speed to conditions that match the room environment. At the start of heating/cooling operation, the airflow is set to high-speed to quickly heat/cool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



	SERIES SELECTION
Power Inverter Series	Solution Solution
Indoor Unit	Outdoor Unit
R32 R410A	For Single
	PUZ-ZM35/50 PUZ-ZM60/71 PUZ-ZM100/125/140
PCA-M35/50/60/71/100/125/140KA2	For Multi (Twin/Triple/Quadruple)
Remote Controller	PUZ-ZM71 PUZ-ZM100/125/140/200/250

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

										Outd	oor Ur	nit Cap	pacity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			ForTriple			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	60×2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	- – MSDD-50TR2-E MSDD- 50WR2-E MSDT-111R3-E					R3-E		DF- R2-E				



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

										Outd	oor U	nit Cap	oacity									
Indooi	r Unit Combination				Fo	or Sing	le				ForTwin							ForTriple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250	
Standa	ard Inverter (PUZ-M&SUZ)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60×2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4	
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MSD	D-50T	R2-E	MS 50W	DD- R2-E	MSI	DT-111	R3-Е	MS 11111	DF- R2-E	

* PAR-SA9CA is also required.

	Demand Control	Pure White ∲	AUTO VANE	Fresh-air Intake	High-efficiency Optional	ng Life Check!		High Ceiling	Low Ceiling	AUTO		¢ ACO	4 Auto Restart	Low Temp Cooling Silent
PCA-M KA SERIES	Ampere Limit	Rotation Back-up		Group Control	M-NET Wi-	-Fi)) COMPO	MXZ	Cleaning-free,	Wiring Reuse	Drain Lift Up	Pump Down	Flare connection	Self Diagnosis	Failure Recall

Туре								Inverter H	leat Pump				
Indoor Un	nit			PCA-M35KA2	PCA-M50KA2	PCA-M60KA2	PCA-M71KA2	PCA-M100KA2	PCA-M100KA2	PCA-M125KA2	PCA-M125KA2	PCA-M140KA2	PCA-M140KA2
Outdoor l	Unit			PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2		PUZ-ZM100VKA2					
Refrigerar	nt ^(*1)							R	32				
Power	Source							Outdoor po	ower supply				
Supply	Outdoor(V/Phase/Hz)						VKA•V	HA:230/Single	/50, YKA:400/T	hree/50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min-Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	0.829	1.250	1.521	1.829	2.375	2.375	3.846	3.846	3.941	3.941
	EER			4.34	4.00	4.01	3.88	4.00	4.00	3.25	3.25	3.40	3.40
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-	-	-
	Annual electricity consum	ption ^(*2)	kWh/a	197	260	328	371	516	527	-	-	-	-
	SEER ^(*4)			6.4	6.7	6.5	6.7	6.4	6.3	-	-	-	-
		Energy efficiency class		A++	A++	A++	A++	A++	A++	-	-	-	-
Heating	Capacity	Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
		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	1.019	1.361	1.745	2.156	3.018	3.018	3.954	3.954	4.432	4.432
	СОР			4.02	4.04	4.01	3.71	3.71	3.71	3.54	3.54	3.61	3.61
	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)	3.4 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	-	-	-	-
	Back up heating capacity	- 1741	kW	0.0	0.0	0.0	0.0	0.0	0.0	-	-	-	
	Annual electricity consum	ption ^(*2)	kWh/a	838	1266	1501	1567	2536	2537	-	-	-	-
	SCOP(*4)	F (7) : 1		4.0	4.2	4.1	4.2	4.3	4.3	-	-	-	-
0 1		Energy efficiency class	1.	A+	A+	A+	A+ 19.4	A+ 20.7	A+	-	-	-	-
	g Current(Max)		A	13.3 0.04/0.04	13.4	19.4	0.06 / 0.06		8.7	27.3	9.8	30.9	12.7
Indoor Unit	Input [cooling / Heating] Operating Current(Max)	Rated	kW A	0.04/0.04	0.05/0.05	0.06 / 0.06	0.06/0.06	0.09/0.09	0.09/0.09	0.11/0.11 0.76	0.11/0.11 0.76	0.14/0.14	0.14/0.14
Unit	Dimensions	H*W*D	mm		0.37 50-680		80-680	0.05	0.05	230-16		0.90	0.90
	Weight		kg	25	26	32	32	37	37	38	38	40	40
	Air Volume (Lo-Mi2-Mi1-Hi)		m ³ /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 (Lo-Mi2-Mi1-Hi) (SPL)	dB(A)	31-33-36-39	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45	41-43-45-48	41-43-45-48
	Sound Level (PWL)	, (- ,	dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)	1338-1050-330(+40)	1338-1050-330(+40)	1338-1050-330(+40)	1338-1050-330(+40)	1338-1050-330(+40)	1338-1050-330(+4
Unit	Weight		kg	46	46	67	67	105	111	105	114	105	118
	Air Volume	Cooling	m ³ /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	13	19	19	20	8	26.5	9	30	11.8
	Breaker Size		A	16	16	25	25	32	16	32	16	40	16
Ext.Pipin	g Diameter ^(*5)	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
	eed 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
Guarante	eed Operating hange (Outdoor)	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 with the refrigerant with with the refrigerant wi

	Demand Control Optional		High-efficiency Optional	Check! SMING High Ceiling		Acco State Restart Low Temp Silent
PCA-M KA SERIES	Ampere Limit Back-up	Group Control	M-NET Wi-Fi が Interface	COMPO MXZ	Wiring Reuse Lift Up Dow	p Fare connection Connection Connection

Туре								Inverter H	leat Pump				
Indoor Un	it			PCA-M35KA2	PCA-M50KA2	PCA-M60KA2	PCA-M71KA2	PCA-M100KA2		PCA-M125KA2	PCA-M125KA2	PCA-M140KA2	PCA-M140KA2
Outdoor L								PUZ-M100VKA2					
Refrigerar				002 1000 VA	002100007	002 M004A	002 W/ WA		32	102101200002	102101201042	1 02 10114011042	1102 1114011042
Power	Source								ower supply				
Supply	Outdoor(V/Phase/Hz)						\/A•\/	KA:230/Single/		vroo/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
ocoming	oupdeity	Min-Max	kW	0.8 - 3.9	1.5 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	5.7 - 13.0	5.7 - 13.0	5.7 - 14.1	5.7 - 14.1
	Total Input	Rated	kW	0.900	1.515	1.648	1.972	2.941	2.941	4.019	4.019	5.360	5.360
	EER			4.00	3.30	3.70	3.60	3.23	3.23	3.01	3.01	2.50	2.50
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	-		-
	Annual electricity consump	otion (*2)	kWh/a	198	291	333	381	553	553	-	-	-	-
	SEER (*4)			6.3	6.0	6.4	6.5	6.0	6.0	-	-	-	-
		Energy efficiency class		A++	A+	A++	A++	A+	A+	-	-	-	-
Heating	Capacity	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	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	1.025	1.617	1.750	2.216	3.284	3.284	3.958	3.958	4.285	4.285
	COP			4.00	3.71	4.00	3.61	3.41	3.41	3.41	3.41	3.50	3.50
	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)	4.1 (-10°C)	5.2 (-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)	5.2 (-7°C)	7.0 (-7°C)	7.0 (-7°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)	-	-	-	-
	Back up heating capacity		kW	0.3	0.5	0.5	0.6	2.0	2.0	-			-
	Annual electricity consumption ^(*2) SCOP ^(*4)			910	1458	1558	1974	2729	2729	-	-	-	-
				4.0	4.1	4.1	4.1	4.1	4.1	-	-	-	-
		Energy efficiency class		A+	A+	A+	A+	A+	A+	-	-		-
Operating	Current(Max)		A	8.8	13.9	15.2	15.2	20.7	12.2	27.3	12.3	30.9	12.4
Indoor	Input [cooling / Heating]	Rated	kW	0.04/0.04	0.05/0.05	0.06 / 0.06	0.06/0.06	0.09/0.09	0.09/0.09	0.11/0.11	0.11/0.11	0.14/0.14	0.14/0.14
Unit	Operating Current(Max)	•	A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90
	Dimensions	H*W*D	mm		60-680		80-680			230-16			
	Weight		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 (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	31-33-36-39		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	
	Sound Level (PWL)		dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor	Dimensions	H*W*D	mm	550-800-285	714-800-285	880-840-330		981-1050-330(+40)					
Unit	Weight	la	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	79	86	86	86	86
	Council Louis (CDL)	Heating	m ³ /min	32.7	43.7	50.1	50.1	79	79	92	92	92	92
	Sound Level (SPL)	Cooling	dB(A)	48	48	49	49	51	51	54	54	55	55
	Sound Level (PWL)	Heating	dB(A)	48	49	51	51	54	54	56	56	57	57
		Cooling	dB(A) A	59	64	65	66	70	70	72	72	73	73
	Operating Current(Max)		A	8.5	13.5	14.8	14.8	20	11.5	26.5	11.5	30 40	11.5
E / D' '	Breaker Size	1		10	20	20	20	32	16	32	16		16
Ext.Piping	Diameter ^(*5)	Liquid/Gas	mm	6.35/9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	
	Max.Length	Out-In	m	20	30	30	30	55	55	65	65	65	65
<u> </u>	Max.Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
Guarante	ed Operating Range (Outdoor)	Cooling ^(*3)	°C	-10 ~ +46 -10 ~ +24	-15 ~ +46 -15 ~ +21								
	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 yousrelf or diassemble the product vourself 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 is protection guide is required where ambient temperature is lower than -8°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.
*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.



Tough on Oily Smoke

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

High-performance Oil Mist Filter

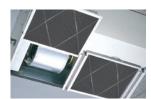
A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable, thereby enabling trouble-free cleaning and maintenance.

Oil Mist Filter Cleaning

When used in kitchens, the oil mist filter should be replaced once every two months. The system comes with 12 filters elements. After these have been used, optional elements (PAC-SG38KFE) can be purchased.



Oil mist filter



Pull the handle to easily slide the filter out

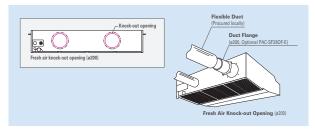
Easy Maintenance – Even for Cleaning the Fan

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



Fresh Outside-air Intake (Option)

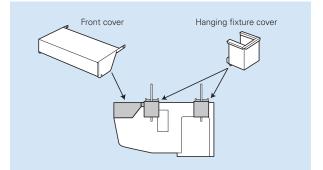
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.



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

Cosmetic Front and Hanging Fixture Covers (Option)

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



	SERIES SELECTION													
Power Inverter Series		Inverter	Vector Sine Ways	100-250 DC Seroll	DC Fan Motor	Vector-Wave	PAM	Power Receiver	Crocoved Piping					
Indoor Unit	Outdoor Unit			1	Re	emote (Contro	ller						
R32	R32			-		Aner Veropre state		-	Anne					
R410A	For Single		PUZ-ZM	71		Optional		25.oc	Optional					
	R32		0	4	-			opuonai	Optional					
PCA-M71HA2	For Multi (Twin/Triple)		PUZ-ZM14	10/250		Optional*								

* PAR-SA9CA is also required.

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

									Outd	oor Ui	nit Cap	pacity								
Indoor Unit Combination				Fo	or Sing	le						For	Twin			F	orTrip	le	For Qu	adruple
	35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)	-	-	-	71x1	-	-	-	-	-	-	-	-	71x2	-	-	-	-	71x3	-	-
Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD- 50TR2-E	-	-	-	-	MSDT- 111R3-E	-	-

	SE	RIES SELECTION		
Power Inverter Series			DC Fun Meter	For Crossed Pains
ndoor Unit	Outdoor Unit		Remote Controller	
R32 R410A	For Single	PUHZ-ZRP71	Optional Optional	Optional
PCA-M71HA2	For Multi (Twin/Triple)		Optional*	
		PUHZ-ZRP140/250	Optional	

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

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



Demand Control optimit	Cooling	Silent Ampere Limit Rotation Dataset - up Optional	Group Control M-NET Connection Option
Wiring Pump Flare Connection Self Diagnosis	Failure Recal		

Туре				Inverter Heat Pump
Indoor Unit				PCA-M71HA2
Outdoor U				PUZ-ZM71VHA2
Refrigerant				R32
	Source			Outdoor power supply
	Outdoor(V/Phase/Hz)			230/Single/50
Cooling	Capacity	Rated	kW	7.1
cooling	Capacity		kW	3.3 - 8.1
	Total Input	Rated	kW	2.028
	EER	Inateu	KVV	3.50
	Design load		kW	7.1
	Annual electricity consump		kWh/a	443
	SEER ^(*4)	otion' -/	kvvn/a	5.6
	SEER	F (7) : 1		
		Energy efficiency class	1347	A+
Heating	Capacity		kW	7.6
			kW	3.5 - 10.2
	Total Input	Rated	kW	2.171
	COP			3.50
	Design load		kW	4.7
	Declared Capacity		kW	4.7 (-10°C)
			kW	4.7 (-10°C)
		at operation limit temperature	kW	3.4 (-20°C)
	Back up heating capacity		kW	0.0
	Annual electricity consump	otion (*2)	kWh/a	1684
	SCOP(*4)			3.9
		Energy efficiency class		A
	Current(Max)		A	19.4
Indoor	Input [cooling / Heating]	Rated	kW	0.10 / 0.10
	Operating Current(Max)		A	0.43
	Dimensions	H*W*D	mm	280-1136-650
	Weight		kg	42
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	16-18
	Sound Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	37-39
	Sound Level (PWL)		dB(A)	57
	Dimensions	H*W*D	mm	943-950-330(+25)
	Weight		kg	67
	Air Volume	Cooling	m³/min	55
			m³/min	55
	Sound Level (SPL)		dB(A)	47
			dB(A)	49
	Sound Level (PWL)	Cooling	dB(A)	67
	Operating Current(Max)		A	19
	Breaker Size		A	25
Ext.Piping	Diameter ^(*5)	Liquid/Gas	mm	9.52 / 15.88
		Out-In	m	55
	Max.Length			
	Max.Height	Out-In	m	30
				30 -15 ~ +46

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP; if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 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 SEER and SCOP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No206/2012.
 *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PSA SERIES

R32 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.

A slim design the fits neatly into any space

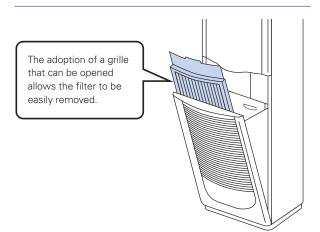
With a width of only 600mm, this slim unit can fit neatly into narrow spaces.





. 600mm

Equipped with a long-life filter as standard



Floor-standing Line-up

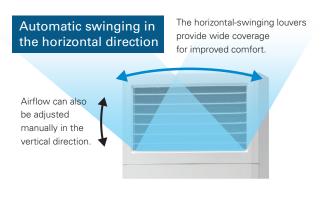
Built-in MA smart remote controller

The large and easy-to-read LCD makes it easy to perform a variety of functions.

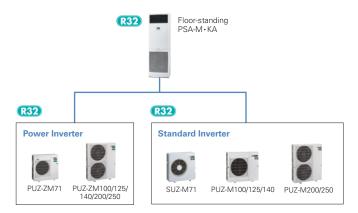


A wide airflow range with horizontal swinging

The horizontal swinging function can be turned on or off via the remote controller to deliver comfort over a wider area.



The PSA series was previously only able to be connected to P series outdoor units. However, it can now also be connected to S series outdoor units. This wider lineup provides our customers with a more flexible range of options.



	SERIES SELECTION	
Power Inverter Series	myerter (File)	100-200 Constant Constant View View View View View View View View
Indoor Unit (R32) (R410A)	Outdoor Unit R32 For Single	
PSA-M71/100/125/140KA	For Multi (Twin/Triple)	PUZ-ZM71 PUZ-ZM100/125/140
Remote Controller	Built-in Optional*	PUZ-ZM140/200/250

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

										Outd	oor Ui	nit Cap	pacity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			F	or Trip	le	For Qu	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUZ-ZM)	-	-	-	71x1	100x1	125x1	140x1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3	-	-
	Distribution Pipe	-	-	_	-	-	-	-	-	-	-	-	-	MSDD -50TR2-E	MSDD-5	0WR2-E	-	-	MSDT -111R3-E	-	-

		SERIES S	ELECTION		
Standard Inverter S	Series		Inverter Vector Sire V	100-140 200/250 DC Rotary DC Scrott DC Floatery DC Scrott	Vector-Wares
Indoor Unit		Outdoor Unit			
R32 R410A		R32 For Single	0		
			SUZ-M71	PUZ-M100/125/140	
PSA-M71/100/125/140KA		R32 For Multi (Twin/Triple)		PUZ-M140	PUZ-M200/250
Remote Controller		Anne Receive a loss a loss b loss	Optional*		

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

									Outd	oor Ui	nit Cap	pacity								
Indoor Unit Combination				Fo	or Sing	gle						For	Twin			F	or Trip	le	For Qu	adruple
	35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standard Inverter (PUZ-M)	-	-	-	71x1	100x1	125x1	140x1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3	-	-
Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD -50TR2-E	MSDD-5	50WR2-E	-	-	MSDT -111R3-E	-	-

PSA-M SERIES	
POWER INVERTER	

Demand Control Group Auto Restart Control Con Wiring Pump Flare Connection Set Failure Recall

Туре							Inverter Heat Pump			
Indoor Uni				PSA-M71KA	PSA-M100KA	PSA-M100KA	PSA-M125KA	PSA-M125KA	PSA-M140KA	PSA-M140KA
Outdoor U				PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2	PUZ-ZM125VKA2	PUZ-ZM125YKA2	PUZ-ZM140VKA2	PUZ-ZM140YKA
Refrigeran	t ^(*1)						R32			
Power	Source						Outdoor power supply			
Supply	Outdoor(V/Phase/Hz)					VKA•VHA:	230/Single/50, YKA:40	00/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	1.888	2.493	2.493	3.955	3.955	3.976	3.976
	EER			3.76	3.81	3.81	3.16	3.16	3.37	3.37
	Design load		kW	7.1	9.5	9.5	-	-	-	-
	Annual electricity consumption	otion(*2)	kWh/a	388	581	592	-	-	-	-
	SEER ^(*4)			6.4	5.7	5.6	-	-	-	-
		Energy efficiency class		A++	A+	A+	-	-	-	-
leating	Capacity	Rated	kW	7.6	11.2	11.2	14.0	14.0	16.0	16.0
		Min-Max	kW	3.5 - 10.2	4.5 - 14.0	4.5 - 14.0	5 - 16.0	5 - 16.0	5.7 - 18.0	5.7 - 18.0
	Total Input	Rated	kW	2.338	3.172	3.172	4.501	4.501	5.000	5.000
	COP		3.25	3.53	3.53	3.11	3.11	3.20	3.20	
	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	3.4 (-20°C)	5.8 (-20°C)	5.8 (-20°C)	-	-	-	-
	Back up heating capacity kW		kW	0.0	0.0	0.0	-	-	-	-
	Annual electricity consumption	otion ^(*2)	kWh/a	1636	2658	2659	-	-	-	-
	SCOP(*4)			4.0	4.1	4.1	-	-	-	-
		Energy efficiency class		A+	A+	A+	-	-	-	
Operating	Current(Max)		A	19.4	20.7	8.7	27.2	9.7	30.7	12.5
ndoor	Input [cooling / Heating]	Rated	kW	0.06 / 0.06	0.11/0.11	0.11/0.11	0.11/0.11	0.11/0.11	0.11/0.11	0.11/0.11
Unit	Operating Current(Max)		A	0.4	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions	H*W*D	mm	1900-600-360	1900-600-360	1900-600-360	1900-600-360	1900-600-360	1900-600-360	1900-600-360
	Weight		kg	46	46	46	46	46	48	48
	Air Volume (Lo-Mi2-Mi1-Hi)		m ³ /min	20-22-24	25-28-30	25-28-30	25-28-31	25-28-31	25-28-31	25-28-31
	Sound Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	40-42-44	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51
	Sound Level (PWL)		dB(A)	60	65	65	66	66	66	66
Outdoor	Dimensions	H*W*D	mm		1338-1050-330(+40)					
Unit	Weight		kg	67	105	111	105	114	105	118
	Air Volume	Cooling	m³/min	55	110	110	120	120	120	120
		Heating	m ³ /min	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	47	49	49	50	50	50	50
		Heating	dB(A)	49	51	51	52	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	67	69	69	70	70	70	70
	Operating Current(Max)		A	19	20	8	26.5	9	30	11.8
	Breaker Size		A	25	32	16	32	16	40	16
Ext.Piping	Diameter ^(*5)	Liquid/Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max.Length	Out-In	m	55	100	100	100	100	100	100
	Max.Height	Out-In	m	30	30	30	30	30	30	30
Guarantee	ed Operating Range (Outdoor)		°C	-15 ~ +46	-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	-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 would be appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than -5°C. *4 SEER and SCOP are based on 2009/125/EC.Energy-related Products Directive and Regulation(EU) No206/2012.

PSA-M series	Demand Control Optional	Long Life	Check!		Q≑Q ACO	4 Auto Restart	Low Temp Cooling Sile	ent 🛞 🛛	Group Control	M-NET connection	Wi-Fi)) Interface Optional	СОМРО	Cleaning-free, pipe reuse	Wiring Reuse Optional
TJA-IVI SERIES STANDARD INVERTER	Pump Down	Self Diagnosis	Failure Recal											

Туре							Inverter Heat Pum	р		
Indoor Un	it			PSA-M71KA	PSA-M100KA	PSA-M100KA	PSA-M125KA	PSA-M125KA	PSA-M140KA	PSA-M140KA
Outdoor L	Jnit			SUZ-M71VA	PUZ-M100VKA2	PUZ-M100YKA2	PUZ-M125VKA2	PUZ-M125YKA2	PUZ-M140VKA2	PUZ-M140YKA2
Refrigerar	1t ^(*1)						R32			
Power	Source						Outdoor power suppl			
Supply	Outdoor(V/Phase/Hz)					VA, VKA:2	30/Single/50, YKA:40	0/Three/50		
Cooling	Capacity	Rated	kW	7.1	9.4	9.4	12.1	12.1	13.6	13.6
		Min-Max	kW	2.2 - 8.1	3.7 - 10.6	3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 13.7	5.8 - 13.7
	Total Input	Rated	kW	1.972	2.686	2.686	4.481	4.481	5.037	5.037
	EER			3.60	3.50	3.50	2.70	2.70	2.70	2.70
	Design load		kW	7.1	9.4	9.4	-	-	-	-
	Annual electricity consump	otion ^(*2)	kWh/a	394	591	591	-	-	-	-
	SEER ^(*4)			6.3	5.5	5.5	-	-	-	-
		Energy efficiency class		A++	A	A	-	-	-	-
Heating	Capacity	Rated	kW	8.0	11.2	11.2	13.5	13.5	15.0	15.0
			kW	2.1 - 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	2.492	3.246	3.246	4.355	4.355	4.761	4.761
	СОР			3.21	3.45	3.45	3.10	3.10	3.15	3.15
	Design load		kW	5.8	8.0	8.0	-	-	-	-
	Declared Capacity		kW	5.2 (-10°C)	6.0 (-10°C)	6.0 (-10°C)	-	-	-	-
		at bivalent temperature	kW	5.2 (-7°C)	7.0 (-7°C)	7.0 (-7°C)	-	-	-	-
		at operation limit temperature	kW	5.2 (-10°C)	4.5 (-15°C)	4.5 (-15°C)	-	-	-	-
	Back up heating capacity		kW	0.6	2.0	2.0	-	-	-	-
	Annual electricity consumption ^(*2) SCOP ^(*4) Energy efficiency class		kWh/a	2003	2745	2745	-	-	-	-
				4.0	4.0	4.0	-	-	-	-
				A+	A+	A+	-	-	-	-
	g Current(Max)		A	15.2	20.7	12.2	27.2	12.2	30.7	12.2
Indoor	Input [cooling / Heating]	Rated	kW	0.06 / 0.06	0.11/0.11	0.11/0.11	0.11/0.11	0.11/0.11	0.11/0.11	0.11/0.11
Unit	Operating Current(Max)	1	A	0.4	0.71	0.71	0.73	0.73	0.73	0.73
	Dimensions	H*W*D	mm	1900-600-360 46	1900-600-360 46	1900-600-360 46	1900-600-360	1900-600-360 46	1900-600-360 48	1900-600-360 48
	Weight		kg m³/min	20-22-24	25-28-30	25-28-30	46 25-28-31	25-28-31	48 25-28-31	48 25-28-31
	Air Volume (Lo-Mi2-Mi1-Hi) Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	40-42-44	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51	45-49-51
	Sound Level (PWL)	(SFL)	dB(A)	60	65	65	66	66	66	66
Outdoor	Dimensions	H*W*D	mm	880-840-330		981-1050-330(+40)		981-1050-330(+40)		981-1050-330(+40)
Unit	Weight		kg	55	76	78	84	85	84	85
	Air Volume	Cooling	m³/min	50.1	79	79	86	86	86	86
		Heating	m³/min	50.1	79	79	92	92	92	92
	Sound Level (SPL)	Cooling	dB(A)	49	51	51	54	54	55	55
		Heating	dB(A)	51	54	54	56	56	57	57
	Sound Level (PWL)	Cooling	dB(A)	66	70	70	72	72	73	73
	Operating Current(Max)		A	14.8	20	11.5	26.5	11.5	30	11.5
	Breaker Size		A	20	32	16	32	16	40	16
Ext.Pipin	Diameter ^(*5)	Liquid/Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max.Length	Out-In	m	30	55	55	65	65	65	65
	Max.Height	Out-In	m	30	30	30	30	30	30	30
	wax.neigin									
Guarante	ed Operating Range (Outdoor)	Cooling ^(*3)	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46

Instant of the second secon





PLA-SM series	SERIES SEL	ECTION		
Indoor Unit	Outdoor Unit			
	0			
PLA-SM71/100/125/140EA	SUZ-SM71VA		00/125/140VKA2 00/125/140YKA2	
Optional PLP-6EAJ - Panel only PLP-6EALM - Panel with signal receiver and wirele	ess remote controller			
		PAR-41MAA(B) DELUXE	PAC-YT52CRA	PAR-SL100A* *Enclosed with PLP-6EALM

PLA-SM SERIES

							erter Heat Pump			
			PLA-SM71EA		M100EA		V125EA			
				SUZ-SM71VA	PUZ-SM100VKA	PUZ-SM100YKA	PUZ-SM125VKA	PUZ-SM125YKA	PUZ-SM140VKA	PUZ-SM140YK
							R32 ^(*1)			
	Source						tdoor power supply			
suppiy	Outdoor (V / Phase / Hz)						Single / 50, YKA:400			
	Capacity	Rated	kW kW	7,1	9,5	9,5		2,1		
Cooling		Min-Max		2,2-8,1	4,0-10,6	4,0-10,6		13,0		
	Total Input	Rated	kW	1,97	2,79	2,79		17		
	EER EEL Rank		3,6	3,4	3,4		,9			
ooling	Design load		kW	-	-	-		-		
	Annual electricity cons	(*0)	kWh/a	7,1	9,5	9,5		2,1		
	SEER	umption (*2)	kwn/a	410 6	554 6	554 6		-		
teating Average Season) Deperating	Energy efficiency class			÷						
	Energy emclency class	Rated	kW	A+ 8	A+	A+		-		
	Capacity	Min-Max	kW		11,2 2,8-12,5	11,2		3,5		
	Total Innut		kW	2,0-10,2	3,1	2,8-12,5		15,0		
	Total Input COP	Rated	KVV	2,28	3,1	3,1 3,61		73 61		
leating werage leason) /perating ndoor init	EEL Rank			- 3,5	3,01	3,01		-	-	
	Design load		kW	5,8	- 8	- 8				
	Designitioau	at reference design temperature	kW	5,8 5,2 (-10°C)	6,0 (-10°C)	6,0 (-10°C)			-	
(Average Season)	Declared Capacity	at bivalent temperature	kW	5,2 (-7°C)	7,0 (-7°C)	7,0 (-7°C)	8,5 (-10°C) 8,5 (-10°C)			
	Deciarea Capacity	at operation limit temperature	kW	5,2 (-10°C)	4,5 (-15°C)	4,5 (-15°C)	6,0 (-15°C)			
			kW	0,6	2	2	0			
	Annual electricity cons		kWh/a	2066	2482	2482		-		-
	SCOP			3,9	4,5	4,5		-		-
	Energy efficiency class			A	A+	A+		-		-
Doeratin	g Current (Max)		A	15,1	20,5	12	27,2	12,2	30.7	12,2
Operauli	Input (cooling/heating)	Rated	kW	0,04	0,07	0.07	0,1	0,1		0,1
	Operating Current (Max		A	0,27	0,46	0,46	0,66	0,66		0,66
	Dimensions <panel></panel>	HxWxD	mm	258x840x840<40x950x950>	5,15	0,10		<40x950x950>		0,00
	Weight <panel></panel>		kg	21<5>	24	<5>			<5>	
Init	Air Volume (Lo-Mid-Hi)		m³/min	14-17-19-21	19-23	-26-29	21-25	-28-31	13, 5,8-1 5,1: 2,66 - 13, - - 15 4,2-1 4,5: 3,7 9,4 (-1) 9,4 (-1) 9,4 (-1) - - 30,7 0,1 0,66 24-26-2 36-39-4 65 92 55 57 73 30 40	-29-32
	Sound Level (Lo-Mid-Hi	i) (SPL)	dB(A)	28-30-32-34	31-34	-37-40	33-37	-41-44	36-39	-42-44
	Sound Level (PWL)		dB(A)	56	6	51	6	35	6	35
	Dimensions	HxWxD	mm	880x840x330				981x1050x330 (+40))	
	Weight		kg	55	76	78	84	85		85
	A	Cooling	m³/min	50,1	79	79	86	86	86	86
0	Air Volume	Heating	m³/min	50,1	79	79	92	92	A PUZ-SM140VKA 1 1 5,8 5 2 1 1 1 1 5,8 1 5 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	92
		Cooling	dB(A)	49	51	51	54	54	55	55
teating verage v	Sound Level (SPL)	Heating	dB(A)	51	54	54	56	56	57	57
	Sound Level (PWL)	Cooling	dB(A)	66	70	70	72	72		73
leating werage kooling leating werage werage werage werage werage werage werage werage leating werage leating werage leating werage leating werage leating werage leating werage leating werage leating werage leating werage leating werage leating werage leating werage leating werage leating werage leating werage leating leatin	Operating Current (Max	3	A	14,8	20	11,5	26,5	11,5	30	11,5
	Breaker Size		A	20	32	16	32	16	25YKA PUZ-SM140VK 0 0 0 0 0 0 0 0 0 0 0 0 0	16
	Diameter	Liquid/Gas	mm				9,52 / 15,88			
	Max. Length	Out-In	m		30			4	40	
	Max. Height	Out-In	m				30			
Guarant	eed Operating Range	Cooling	°C				-15 ~ +46			
		Heating	°C	-10 ~ +24			-15 -	~ +21		
Refriger	ant/GWP	. ~					R32/675(*4)			
		Weight	kg	1,45	3,1	3,1	3,6	3,6	3.6	3,6
Pre-Cha	rged quantity	CO, equivalent	t	0.98	2,09	2,09	2,43	2,43		2,43
		2		0,00	2,00	2,00	1 2,10	2,10	2,10	2, 10
		Weight	kg	2,37	4,1	4,1	5	5	5	5

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less te global warming than a refrigerant with higher GWP, if leaked te 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 te the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO 2, aver a period of 100 years. Never try to interiere with the refrigerant ricult yourself or disassemble the product yourself and always ask a professional.
(*2) Prorey 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) This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition,



PEAD-SM series	SERIES SELECTION
Indoor Unit	Outdoor Unit
PEAD-SM71/100/125/140JAL(2)	SUZ-SM71VA PUZ-SM100/125/140VKA
FEAD-SIVITI(100/123)1403AL(2)	PUZ-SM1100/125/140YKA PUZ-SM100/125/140YKA
Remote Controller (Optional)	
	PAR-41MAA(B) PAC-YT52CRA PAR-FL32MA Optional Optional Optional

PEAD-SM SERIES

Type						Inv	erter Heat Pump				
	it			PEAD-SM71JA (L)	PEAD-SM100JA (L)			PEAD-SM125JA (L)	PEAD-SM140JA (L)	PEAD-SM140JA (L)	
Outdoor L	Jnit			SUZ-SM71VA	PUZ-SM100VKA	PUZ-SM100YKA	PUZ-SM125VKA	PUZ-SM125YKA	PUZ-SM140VKA	PUZ-SM140YKA	
Refrigerar	nt						R32 ⁽¹⁾				
Power	Source					Out	door power supply				
Supply	Outdoor (V / Phase / Hz)					VA · VKA:230 / S	ingle / 50, YKA:400	/ Three / 50			
Supply Outdo Supply Outdo Cooling Cooling EEL F ER F Energ F F E E F F F F F F F F F F F F F F F	O	Rated	kW	7,1	9,5	9,5	12	2,1	1:	3,4	
	Capacity	Min-Max	kW	2,2-8,1	4,0-10,6	4,0-10,6	6,0-	13,0	6,1-	14,1	
	Total Input	Rated	kW	2,08	2,95	2,95	4,	17	4,	96	
				3,41	3,21	3,21	2	,9	2	,7	
Cooling	EEL Rank			-	-	-		-		-	
	Design load			7,1	9,5	9,5	12	2,1	10	3,4	
		SU2-SM11VA PUZ-SM1004KA PUZ-SM120KA PUZ-SM120KA PUZ-SM120KA arcs	-		-						
	SEER			- 1 -		5,3		-		-	
	Energy efficiency class	1								-	
	Capacity									5	
										15,8	
	Total Input	Rated	kW							28	
				3,61	3,7	3,7	3	,5	3	,5	
	EEL Rank			-	-	-		-			
Heating	Design load									,4	
										10°C)	
Season)	Declared Capacity						· · · · · · · · · · · · · · · · · · ·		9,4 (-10°C)		
									7,0 (-15°C) 0		
		umption (^-)	kvvn/a					-		-	
								-		-	
Operatin			Δ.				20.2	- 14.9	32.8	14.3	
operating		Pated							0,39 (0,37) / 0,37	0,39 (0,37) / 0,37	
									2,78	2,78	
									250-1600-732	250-1600-732	
Indoor		1							44 (43)	44 (43)	
Unit									32,0-39,0-46,0	32,0-39,0-46,0	
				11,0 21,0 20,0	2 1,0 20,0 0 1,0			20,0 00,0 12,0	02,0 00,0 10,0	02,0 00,0 10,0	
				26-30-34	29-5			6-40	34-3	8-43	
	Sound Level (PWL)	/(0.2)					67				
	Dimensions	HxWxD		880x840x330		981x1050x330 (+4			(O)		
	Weight	ņ.	kg	55	76	78	84	85	84	85	
	-	Cooling		50,1	79	79	86	86	86	86	
.	Air volume	Heating	m³/min	50,1	79	79	92	92	92	92	
	Cound Loval (CDL)	Cooling	dB(A)	49	51	51	54	54	55	55	
	Sound Level (SPL)	Heating	dB(A)	51	54	54	56	56	57	57	
	Sound Level (PWL)	Cooling	dB(A)	66		70		72	73	73	
	Operating Current (Max)								30	11,5	
	Breaker Size			20	32	16		16	40	16	
Fxt	Diameter					-	9,52 / 15,88				
Piping	Max. Length				30			4	0		
	Max. Height										
	eed Operating Range	Cooling ⁽¹³⁾	°C				-15 ~ +46				
(Outdoor)		Heating	°C	-10 ~ +24			-15 -	- +21			
Refrigera	ant/GWP						R32/675(*4)				
		Weight	ka	1 45	3.10	3.10		3.60	3.60	3,60	
Pre-Cha	rged quantity	-	-					.,			
		2					-		2,43	2,43	
										5,00	
Max add	led quantity	Weight CO, equivalent	t t	1.60	2,77	4,10	3,38	3,38	5,00	3.38	

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO 2, over a period of 100 years. Never try to interfere with the refrigerant riccul voursel for disassemble the product yoursel and aways as 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 is roprotection guide is required where ambient temperature is lower than -5°C.
 (*4) This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition,

SP

SERIES





SELECTION

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



Possible combinations depends on the outdoor unit chosen. Please check the following points.

Check Indoor Units

Check Indoor Unit Capacity Combination 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.)

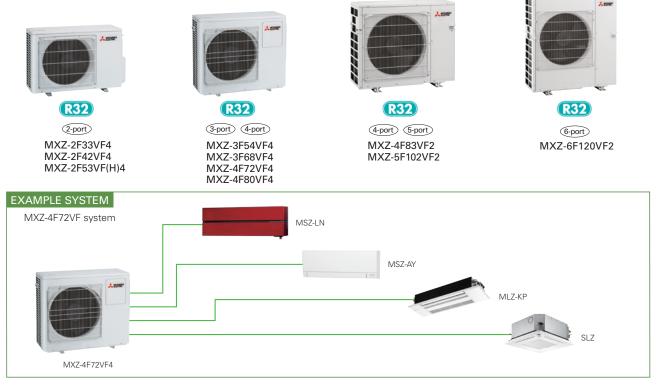
Refer to the "Combination Table" to check if the capacity combination of the indoor unit selected is connectable. (Combinations not listed cannot be connected.)

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.



Units can be used even if it is connected to only one indoor unit (4F83/5F102/6F120)

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

No necessity for refrigerant charging

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

Handle Up to 6 Rooms with a Single Outdoor Unit

The MXZ Series for R32 offers a ten-system line-up to choose from, ranging between 3.3 and 12.0kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

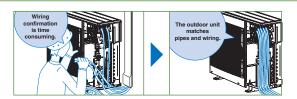
Support Functions

Wiring/Piping Correction Function* (3F54/3F68/4F72/4F80/4F83/5F102/6F120)

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

Guaranteed Operating Range [Outdoor]

Refrigerant/GWP Pre-Charged Quantity

Max Added Quantity

			Jun	t Lap DC Fan Motor		0.004	ed Piping								
Type (Inv	erter Multi - Spl	t Heat Pump)			Up to 2 In	door Units			door Units	Up	to 4 Indoor U	nits	Up to 5 Indoor U		
ndoor Ur	nit								refer to*3		-				
Dutdoor I	Jnit			MXZ-2F33VF4	1XZ-2F33VF4 MXZ-2F42VF4 MXZ-2F53VF4 MXZ-2F53VF4 MXZ-3F54VF4 MXZ-3F68VF4 MXZ-4F72VF4 MXZ-4F80VF4 MXZ-4F83VF2 MXZ-5F102										
Refrigera	nt			R32											
Power	Source			Outdoor power supply											
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	8.0	8.3	10.2		
	Input	Rated	kW	0.85	0.98	1.40	1.40	1.32	1.84	1.85	2.25	1.97	2.80		
	Design Load		kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	8.0	8.3	10.2		
	Annual Elect	ricity Consumption*1	kWh/a	189	169	216	216	222	301	311	368	342	436		
	SEER*3			6.1	8.7	8.6	8.6	8.5	7.9	8.1	7.6	8.5	8.2		
		Energy Efficiency (Class*3	A++	A+++	A+++	A+++	A+++	A++	A++	A++	A+++	A++		
Heating	Capacity	Rated	kW	4.0	4.5	6.4	6.4	7.0	8.6	8.6	8.8	9.3	10.5		
	Input	Rated	kW	0.91	0.88	1.56	1.56	1.40	1.91	1.87	2.00	2.00	2.28		
	Design Load		kW	2.7	3.5	3.5	3.5	5.2	6.8	7.0	7.0	7.0	7.4		
	Declared at r	eference design temperature	kW	2.2	2.7	2.7	2.7	4.2	5.7	5.6	5.6	5.8	5.9		
	Capacity at l	vivalent temperature	kW	2.4	2.9	2.9	2.9	4.8	6.4	6.2	6.2	6.2	6.4		
	ato	peration limit temperature	kW	1.6	2.3	2.3	2.1	3.2	4.6	4.8	4.8	4.9	4.9		
	Back Up Hea	ting Capacity	kW	0.5	0.8	0.8	0.8	1.0	1.1	1.4	1.4	1.2	1.5		
	Annual Electricity Consumption*1		kWh/a	944	1065	1065	1089	1583	2321	2389	2389	2087	2205		
	SCOP*3			4.0	4.6	4.6	4.5	4.6	4.1	4.1	4.1	4.7	4.7		
		Energy Efficiency (Class*3	A+	A++	A++	A+	A++	A+	A+	A+	A++	A++		
Max. Op	erating Current (ndoor+Outdoor)	А	10.0	12.2	12.2	12.2	18.0	18.0	18.0	18.0	21.4	21.4		
	Dimensions	H × W × D	mm		550 - 8	800 (+69) - 285	(+59.5)		710 - 840	- 330 (+66)		796 - 9	50 - 330		
Unit	Weight	•	kg	33	37	37	38	58	58	59	59	62	62		
	Air Volume	Cooling	m³/min	30.8	28.4	32.7	32.7	31	35.4	35.4	40.3	57	63		
		Heating	m³/min	32.3	33.5	34.7	34.7	31	39.6	42.7	44.1	62	75		
	Sound Level (S	PL) Cooling	dB(A)	49	44	46	46	46	48	48	50	49	52		
		Heating	dB(A)	50	50	51	51	50	53	54	55	51	56		
	Sound Level (P	WL) Cooling	dB(A)	60	59	61	61	60	63	63	65	61	65		
	Breaker Size		А	15	15	15	15	25	25	25	25	25	25		
Ext.	Port Diameter	Liquid	mm	6.35 × 2	6.35 × 2	6.35 × 2	6.35 × 2	6.35 × 3	6.35 × 3	6.35 × 4	6.35 × 4	6.35 × 4	6.35 × 5		
Piping		Gas	mm	9.52 × 2	9.52 × 2	9.52 × 2	9.52 × 2	9.52 × 3	9.52 × 3	12.7 × 1+9.52 × 3	12.7 × 1+9.52 × 3	$12.7 \times 1 + 9.52 \times 3$	12.7 × 1+9.52		
	Total Piping Le	ngth (max)	m	20	30	30	30	50	60	60	60	70	80		
	Each Indoor Un	it Piping Length (max)	m	15	20	20	20	25	25	25	25	25	25		
	Max. Height		m	10	15 (10)*2	15 (10)*2	15 (10)*2	15 (10) ^{*2}	15 (10) ^{*2}	15 (10) ^{*2}	15 (10)*2	15	15		
	Chargeless Len	gth	m	20	30	30	30	50	60	60	60	70	80		
	, and a second s	•											-		

Inverter (2007) T- PAM Power Receiver

Type (Inv	erter Multi -	Split Hea	at Pump)		Up to 6 Indoor Units		
Indoor Ur	nit				Please refer to*3		
Outdoor I	Jnit				MXZ-6F120VF2		
Refrigera	nt				R32		
Power	door Unit igerant source PY Qutdoor (V/Phase/F ling Capacity Input Design Load Annual Electricity SEER*3 ting Design Load Declared Design Load Declared Back Up Heating (Annual Electricity SCOP*3 c. Operating Current (Indoor door Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL) Breaker Size Port Diameter Total Piping Length Each Indoor Unit Pip Max. Height Chargeless Length Chargeless Length			Outdoor power supply			
Supply	Outdoor (V/	Phase/H	łz)		220 - 230 - 240V / Single / 50H		
Cooling	Capacity		Rated	kW	12.0		
	Input		Rated	kW	3.60		
	Design Lo	ad		kW	12.0		
	Annual El	ectricity	Consumption*1	kWh/a	612		
	SEER*3				6.86		
			Energy Efficiency C	class*3	A++		
Heating	Capacity		Rated	kW	14.0		
	Input		Rated	kW	3.31		
	Design Lo	ad		kW	8.1		
	Declared	at referer	ice design temperature	kW	6.9		
	Capacity	at bivaler	nt temperature	kW	7.6		
			ion limit temperature	kW	5.7		
	Back Up H	leating	Capacity	kW	1.2		
	Annual El	ectricity	Consumption*1	kWh/a	2794		
	SCOP*3		· · · · · · · · · · · · · · · · · · ·		4.06		
			Energy Efficiency C	lass*3	A+		
Max. Op	erating Curre	nt (Indo	or+Outdoor)	А	29.8		
Outdoor	Dimensions		H × W × D	mm	1048 - 950 - 330		
Unit	Weight			kg	87		
	Air Volume	Cooling		m³/min	63		
	Jnit Weight		Heating	m³/min	77		
	Sound Leve	I (SPL)	Cooling	dB(A)	55		
			Heating	dB(A)	57		
	Sound Leve	I (PWL)	Cooling	dB(A)	69		
	Breaker Size)		Α	32		
Ext.	Port Diamet	er	Liquid	mm	6.35 × 6		
Piping			Gas	mm	12.7 × 1 + 9.52 × 5		
	Total Piping	Length	(max)	m	80		
	Each Indoor	Unit Pi	oing Length (max)	m	25		
	Max. Height			m	15		
	Chargeless	Length		m	80		
		g Range	Cooling	°C	-10 ~ +46		
[Outdoor]		-	Heating	°C	-15 ~ +24		
Refrigera	nt/GWP				R32/675*4		
Pre-Char	ged Quantity		Weight	kg	2.4		
			CO ₂ equivalent	t	1.62		
Max Add	ed Quantity		Weight	kg	2.4		

m ℃

°C

kg

t

kg

Cooling

Heating

Weight

CO₂ equivalent

Weight CO₂ equivalent

-10 ~ +46

-15 ~ +24

R32/675*

0.8

0.54

0.8

0.54

-10 ~ +46

-15 ~ +24

R32/675*4

1.0

0.68

1.0

0.68

-10 ~ +46

-15 ~ +24

R32/675*4

1.0

0.68

1.0

0.68

-10 ~ +46

-15 ~ +24

R32/675*4

2.4 1.62

2.4

1.62

-10~ +46

-20 ~ +24

R32/675*

1.0

0.68

1.0

0.68

-10 ~ +46

-15 ~ +24

R32/675*4

2.4 1.62

2.4

1.62

-10 ~ +46

-15 ~ +24

R32/675*

2.4 1.62

2.4

1.62

-10 ~ +46

-15 ~ +24

R32/675*4

2.4 1.62

2.4

1.62

*1 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located. *2 If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10 m.

احداله

	*3 SEER/SCOP values and	energy efficiency class are measured when connected to the indoor units listed below.
-	MXZ-2F33VF4	MSZ-AY15VGK(P) + MSZ-LN18VG2
-	MXZ-2F42VF4	MSZ-LN18VG2 + MSZ-LN25VG2
_	MXZ-2F53VF4/VFH4	MSZ-LN18VG2 + MSZ-LN35VG2
	MXZ-3F54VF4	MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2
-	MXZ-3F68VF4	MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
_	MXZ-4F72VF4	MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 +MSZ-LN18VG2
_	MXZ-4F80VF4	MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 +MSZ-LN25VG2
	MXZ-4F83VF2	MSZ-LN18VG + MSZ-LN18VG + MSZ-LN25VG + MSZ-LN25VG
-	MXZ-5F102VF2	MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
-	MXZ-6F120VF2	MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
_	*4 This GWP value is based	d on Regulation(EU) No 517/2014 from IPCC 4th edition.

-15 ~ +24

R32/675*3

2.4

1.62

2.4

1.62

-10 ~ +46

-10 ~ +46

-15 ~ +24

R32/675*3

2.4 1.62

2.4

1.62

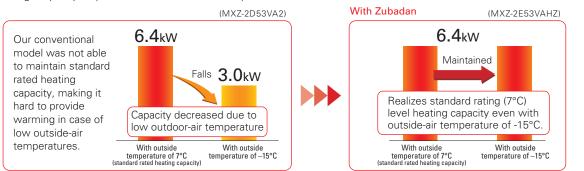
MXZ-VFHZ series

e de

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.

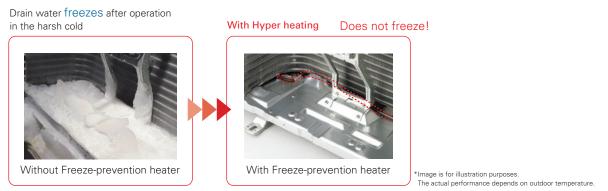


Can operate at outside-air temperature of -25°C

- 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.

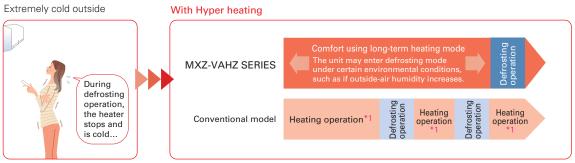
Equipped Freeze-prevention heater as standard

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



Continuous heating for long periods

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



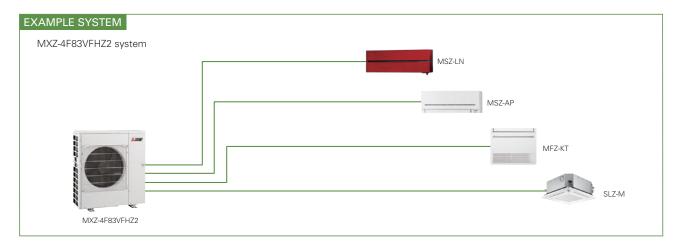
*1: Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

One outdoor unit supports multiple indoor units.

With MXZ-VFHZ, 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. e Single air conditioner



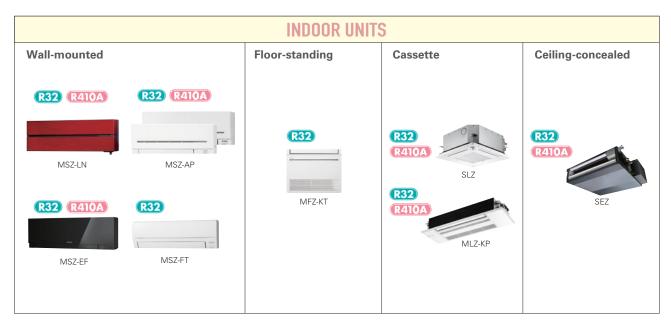
*Please note that cooling and heating modes cannot be run simultaneously in different rooms.



Freedom of combinations in cold region greatly enhanced

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





Outdoor Unit	
MXZ-2F53VFHZ2	MXZ-4F83VFHZ2

Туре				Inverter F	leat Pump		
Indoor Un	iit				er to*2 *3		
Outdoor U	Jnit			MXZ-2F53VFHZ2	MXZ-4F83VFHZ2		
Refrigerar							
Power	Source			Outdoor p	ower supply		
Supply	Outdoor (V/Phase/H	z)					
Cooling	Capacity	Rated	kW	5.3	8.3		
, in the second s		Min - Max	kW	1.1 - 6.0	3.5 - 9.2		
	Total Input	Rated	kW	1.29	1.90		
	Design Load		kW	5.3	8.3		
	Annual Electricity Co	onsumption*1			398		
	SEER*5	• • •			7.3		
		Energy Efficiency Class			A++		
Heating	Capacity	Rated (7°C)	kW		9.0		
(Average		Rated (–7°C)			9.0		
Season)		Rated (-15°C)			9.0		
		Min - Max			3.5 - 11.6		
	Total Input	Rated			1.70		
		Design Load			10.1		
	Declared Capacity	at reference design temperature			10.6		
	Doolaroa oapaoity	at bivalent temperature			11.5		
		at operation limit temperature			5.7		
	Back Up Heating Capacity				0.0		
	Annual Electricity Co				3286		
	SCOP*5	nsumption	KVVII/d		4.3		
	300F	Energy Efficiency Class			4.5 A+		
May One	erating Current (Indoo						
	Dimensions	H×W×D			28.0 1048 × 950 × 330		
Unit	Weight	HXWXD					
0	Air Volume	0	KW 6.8 kW 6.4 kW 7.4	86			
	All volume	Cooling Heating			63		
	Cound Lough (CDL)						
	Sound Level (SPL)	Cooling		-	55		
		Heating			57		
	Sound Level (PWL)	Cooling			66		
	Breaker Size				30		
Ext. Piping	Diameter	Liquid / Gas	-		6.35× 4 / 12.7 × 1+9.52 × 3		
ripilig	Total Piping Length				70		
	Each Indoor Unit Pip	oing Length (max)	m		25		
	Max. Height		m	-	15		
	Chargeless Length	1			70		
	ed Operating Range	Cooling		· · ·	-10 ~ +46		
[Outdoor]		Heating	°℃	-25 ~ +24	-25 ~ +24		

 [Outdoor]
 Heating
 T
 --zb ~ +z+

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

 *2 EER/CSP ELL rank, SEEN/SCD values and energy efficiency class are measured when connected to the indoor units listed below. MX2-2F53VFH22 MSZ-LN18VG2 + MSZ-LN35VG2 MX2-4F83VFH22 MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2

 *3 Indoor unit compatibility table is shown on page 116.

 *4 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 CD2, over a period of 100 years. Never try to interfree with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

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



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





3-port MXZ-3HA50VF2

Stylish Design with Flat Panel Front

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



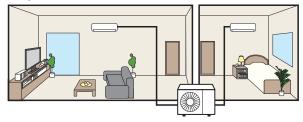
Easy to create various combinations

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

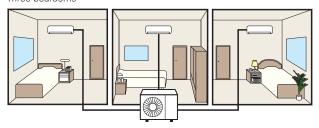
Two bedrooms



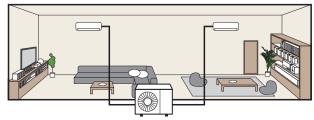
Living room and one bedroom



Three bedrooms



Wide living room



MXZ-HA SERIES



ype (Inv	rerter Multi - S	plit Heat Pump)		Up to 2 Inc	door Units	Up to 3 Indoor Units			
door Ur	nit				Please refer to*3				
)utdoor	Unit			MXZ-2HA40VF2	MXZ-2HA50VF2	MXZ-3HA50VF2			
efrigera					R32				
ower	Source	rtdoor (V/Phase/Hz) Capacity Rated KW Min-Max KW Input Rated KW Annual Electricity Consumption*2 KWh/a SEER*1 Capacity Rated KW Capacity			Outdoor power supply				
upply		hase/Hz)			220 - 230 - 240V / Single / 50Hz				
ooling			kW	4.0	5.0	5.0			
					MXZ-2HA60VF2 R32 Outdoor power supply 220 - 230 / Single / 50Hz 5.0 1.1 - 5.4 1.52 778 225 778 4.4 + 6.0 1.0 - 6.4 1.52 2.4 2.9 2.1 0.8 1043 4.30 4.30 4.30 4.30 1.12 550 - 800 (+69) - 285 (+59.5) 37 32.7 34.7 47 51 64 15 6.35 x 2 30 20 15 30 -10 - +46 -10 - +46 -10 - +46 0.9 0.61	2.9 - 6.5			
	Input					1.26			
		d				5.0			
			kWh/a	-					
	SEER*1					7.26			
		Energy Efficiency (Class*3	A++	-	A++			
eating	Capacity	0 1 1		4.3	6.0	6.0			
	,		+ +			2.6 - 7.5			
	Input		+ +			1.30			
						4.0			
	_ <u> </u>	• • •							
		callerty consumption	Kvvnyu			4.02			
	0001	Energy Efficiency (lass*3						
lay On	erating Curren	0 1 1	_						
						710 - 840 - 330 (+66)			
	Weight	11.2.0.2.0							
	-	Cooling							
	All Volume	°	· ·	-	-				
	Sound Lovel (•							
	Sound Lever								
	Sound Louol	v							
		(FVVL) Cooling							
rt.		• (tauta	++						
ping	Fort Diamete								
	Total Dining I	NM2 2HA40VF2 NM2 PM2 NM2 PM2 NM2 PM2 B32 Outdoor power supply C20 - 240 - 240 VFS supply C20 - 240 VFS supply C20 - 240 VFS supply MM2 - 440 MFS supply C20 - 240 VFS supply MMA - 440 Supply MMA - 400 Supply MMA - 44 Calspan="2">Calspan="2" MMA - 40 Calspan= Calspan="2" MMA - 4. Calspan="2" Calspan="2" Calspan= Calspan="2" Calspan= Calspan="2"							
		Juit Fiping Length (max)							
		angth							
				30		40			
Dutdoor									
	·	Heating		D00/07E*4		D00/075*4			
-	-	10/sish4	K a						
re-cilar	geu Quantity								
	ad Quantity								
aX Add	eu quantity								
Actual e If the ou SEER/S MXZ-2H MXZ-2H	energy consump utdoor unit is ins COP values and IA40VF2 \rightarrow M IA50VF2 \rightarrow M	sed on standard test results. tion will depend on how the talled higher than the indoor energy efficiency class are n SZ-HR25VF + MSZ-HR25VF SZ-HR25VF + MSZ-HR25VF	appliance unit, max neasured	is used and where it is located. . height is reduced to 10 m. when connected to the indoor units listed below.	0.01				

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

3 Important Points to Remember When Installing the Outdoor Unit



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

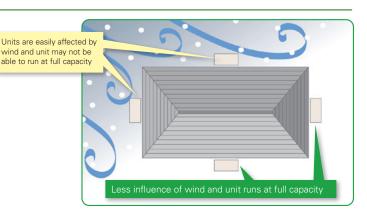
Wind and snow can significantly reduce capacity.

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



Installation Location

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

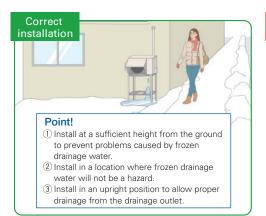




Measures for Drainage of Water

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

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







Case 2: Multiple units are installed

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

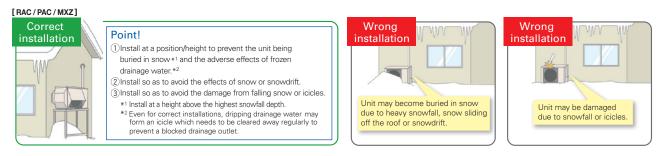




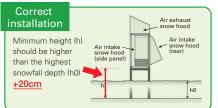
3 Measures for Snow

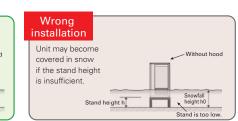
Unit is installed on the ground

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

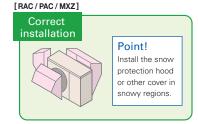


Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.





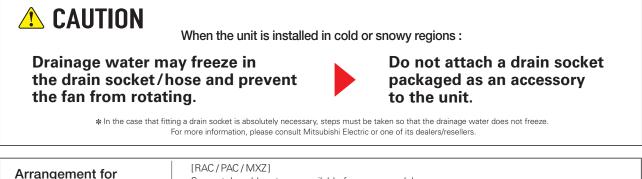
Install snow protection hood as necessary



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

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

About disposal of drainage water



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

Indoor Unit Compatibility Table

ie co	ombinati	ions of outdoor units	and in	door u	nits are	e show	n belo	w.									
		Outdoor Unit		400.4		0.1011			verter Mo	dels Heat	Pump Ty	pe					
			MXZ-*1	MXZ-*1	MXZ-*1	MXZ ^{*1}	MXZ-*1	MXZ-*1	MXZ-*1	MXZ-*1	MXZ-	MXZ-	MXZ-	MXZ-	MXZ-*1		
Jnit		MSZ-RW25VG	2F33VF4	2F42VF4	2F53VF(H)4	2F53VFHZ2	3F54VF4	3F68VF4	4F72VF4	4F80VF4	4F83VF2	4F83VFHZ2	5F102VF2	6F120VF2	2 2HA40VF2	2 2HA50VF	F2
	Vall- <i>N</i> ounted	MSZ-RW35VG		•	•	•	•	•	•	•	•	•	•	•			_
		MSZ-RW50VG		-	-	-	•	•	•	•	•	•	•	•			-
		MSZ-LN18VG2(W)(V)(R)(B)	•	•	•	•	•	•	•	•	•	•	•	•			_
		MSZ-LN25VG2(W)(V)(R)(B)		•	•	•	•	•		•	•	•	•	•			
		MSZ-LN35VG2(W)(V)(R)(B)		•	•	•	•	•	•	•	•	•	•	•			_
		MSZ-LN50VG2(W)(V)(R)(B)															-
		MSZ-FT25VG				•						•					-
		MSZ-FT35VG															
		MSZ-FT50VG															
		MSZ-AY15VGK(P)															
		MSZ-AY20VGK(P)	•	•	•	•	•		•	•				•			
		MSZ-AY25VGK(P)															
		MSZ-AY35VGK(P)		•	•			•	•	•			•	•			
		MSZ-AY42VGK(P)															
		MSZ-AY50VGK(P)			•	•	•	•	•	•	•	•	•	•			
		MSZ-AP60VG(K)											•	•			
		MSZ-AP71VG(K)				6	-		6		•	•	•	•			_
		MSZ-EF18VG(K)(W)(B)(S)	•	•	•				•		•			•			
		MSZ-EF22VG(K)(W)(B)(S)	•	•	•	•	•	•	•	•	•	•	•	•			_
		MSZ-EF25VG(K)(W)(B)(S) MSZ-EF35VG(K)(W)(B)(S)		•	•	•	•	•	•	•	•	•	•	•			
		MSZ-EF35VG(K)(W)(B)(S) MSZ-EF42VG(K)(W)(B)(S)			•	•	•	•			•			•			_
		MSZ-EF42VG(K)(W)(B)(S) MSZ-EF50VG(K)(W)(B)(S)			•	•	•	•	•	•	•	•	•	•			
		MSZ-EF50VG(K)(W)(B)(S) MSZ-BT20VG(K)			•	•	•		•	•	•	•	•	•			
		MSZ-BT25VG(K)	•	•	•	•	•		•	•	•	•	•	•			
		MSZ-BT35VG(K)			•	•	•	•		•	•	•					_
		MSZ-BT50VG(K)		-	-	-	-	-	-	-	-	-	-				-
		MSZ-HR25VF(K)															_
		MSZ-HR35VF(K)													•		-
		MSZ-HR42VF(K)															-
		MSZ-HR50VF(K)															-
		MSZ-HR60VF(K)															
		MSZ-HR71VF(K)															
		MSZ-DW25VF															
		MSZ-DW35VF															
		MSZ-DW50VF															
	loor-	MFZ-KT25VG	•	•	•	•	•	•	•			•	•	•			
3	Standing	MFZ-KT35VG															
_		MFZ-KT50VG	-	-	-		•		•	•		•	•	•			_
	-way Cassette	MLZ-KP25VF		•		•		•	•			•					_
		MLZ-KP35VF		•	•	•	•	•	•	•	•	•	•	•			_
		MLZ-KP50VF					•				•		•				_
s 2	×2	MLZ-KY20VG SLZ-M15FA2	•	•	•	•	•	•	•	•	•	•	•	•			_
	Cassette	SLZ-M15FA2 SLZ-M25FA2	-		•				•								_
		SLZ-M25FA2 SLZ-M35FA2	•	•	•	•	•	•	•	•	•	•	•	•			
		SLZ-M50FA2					•	•	•	•	•	•	•	•			-
		SLZ-M60FA2									-	-					
C	Ceiling-	SEZ-M001 A2 SEZ-M25DA2 *2	•	•	•			•	•	•		•		•			-
	Concealed	SEZ-M25DAL2 *2	•	•	•	•	•	•	•	•	•	•	•	•			
		SEZ-M35DA2		•	•	•	•	•	•	•	•	•	•	•			-
		SEZ-M35DAL2		•	•	•	•	•	•	•	•	•	•	•			
		SEZ-M50DA2					•	•	•		•	•	•	•			1
		SEZ-M50DAL2					٠	٠	٠	•	•	٠	٠	٠			
		SEZ-M60DA2															_
		SEZ-M60DAL2															
		SEZ-M71DA2															
		SEZ-M71DAL2															
	Concealed	SFZ-M25VA	•	•	•	•	•		•								
	loor- Standing	SFZ-M35VA		•		•											
		SFZ-M50VA					•		•	•							
		SFZ-M60VA							•								
		SFZ-M71VA											٠	•			
	Ceiling-	PCA-M50KA2															
S	Suspended	PCA-M60KA2						•	•	•							_
		PCA-M71KA2															
	Ceiling-	PEAD-M35JA2					•*3	•*3	•*3	•*3	•*3	•*3*4	•*3	•*3			
C	Concealed	PEAD-M35JAL2					•*3	•*3	•*3	•*3	•*3	•*3*4	•*3	•*3			
		PEAD-M50JA2					•*3	•*3	•*3	•*3	•*3	•*3*4	•*3	•*3			
		PEAD-M50JAL2					•*3	•*3	•*3	•*3	•*3	•*3*4	•*3	•*3			
		PEAD-M60JA2									•*3	•*3*4	•*3	•*3			
		PEAD-M60JAL2									•*3	•*3*4	•*3	•*3			
		PEAD-M71JA2									•*3	•*3*4	•*3	•*3			- 11

*1 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.
 *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 Maximum total current of indoor units: 3A or less
 *4 P series cannot be connected with MXZ-4F83VFHZ2 when ampere limit adjustment function is operated.









SELECTION

Choose from types of indoor units and outdoor units. Create the system that best matches room shapes and number of rooms.



R32	INDOOR UN	ITS	R32	OUTDOOR UNITS
Wall-mounted		Ceiling-suspended	PUMY-SM	
MSZ-LN	MSZ-EF			
MSZ-AY	MSZ-RW	PCA		
MSZ-AP	MSZ-BT	Ceiling-concealed		SM112/125/140V(Y)KM
Cassette	MLZ-KP	SEZ		
SLZ	MLZ-KY	PEAD		

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.)

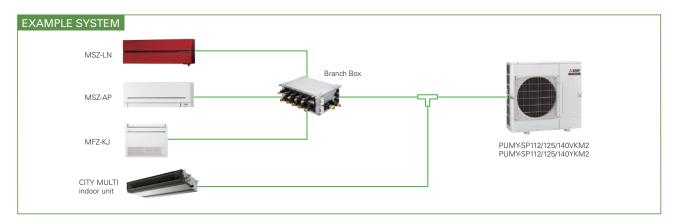
PUMY-SP_{SERIES}

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-SP112/125/140VKM2 PUMY-SP112/125/140YKM2



Light weight and compact size

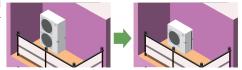
Compact design fits into narrow outdoor unit space of condominiums and offices. Light weight design facilitates easy installation and transportation.



Unobstructive, compact, and easy to hide from view

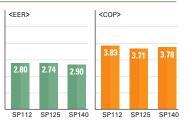
Conventional 2-fan type outdoor units may spoil the view. Due to its compact size, the new outdoor fan unit can be installed in loca-

tions that would have been inappropriate.



Industry's top energy efficiency

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



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.

25% reduction

Easy installation and transportation

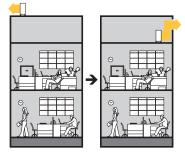
The reduced weight and height allow for better transportation performance. Carrying and installing become easier.



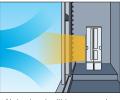
27% reduction

An external static pressure of 30Pa

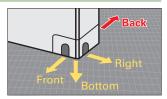
The installation location is flexible thanks to its 30Pa static pressure. You can install it in locations that you could not before.



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 SERIE

						V Power Only		
ES	Inverter	$\sim\sim$	\bigcirc		WW	PAM	The way was	
		Vector Sine Wave	DC Rotary	DC Fan Motor	Vector-Wave		Grooved Piping	

Cu	*1 ower Input	kW		e 220-230-240V 50Hz, 220\	60Hz	2 phas	000 400 445\ (50\ \ 000)	
(Nominal) Po		kW			00112	5-pi laa	e 380-400-415V 50Hz, 380\	/ 60Hz
Cu			12.5	14.0	15.5	12.5	14.0	15.5
		kW	4.46	5.11	5.34	4.46	5.11	5.34
E E	urrent Input	A	20.69 - 19.79 - 18.97, 20.69	23.71 - 22.68 - 21.73, 23.71	24.77 - 23.70 - 22.71, 24.77	7.14 - 6.78 - 6.54, 7.14	8.18 - 7.77 - 7.49, 8.18	8.55 - 8.12 - 7.83, 8.55
CC	ER	kW/kW	2.80	2.74	2.90	2.80	2.74	2.90
Temp. Range of Inc	ndoor Temp.	W.B.	15.0~24.0°C (59~75°F)					
Cooling Ou	utdoor Temp.*2	D.B.	-5.0~52.0°C (23~126°F)					
Heating Capacity	*3	kW	14.0	16.0	16.5	14.0	16.0	16.5
(Nominal) Po	ower Input	kW	3.66	4.31	4.36	3.66	4.31	4.36
Cu	urrent Input	A	16.98 - 16.24 - 15.57, 16.98	20.00 - 19.13 - 18.33, 20.00	20.23 - 19.35 - 18.54, 20.23	5.86 - 5.57 - 5.36, 5.86	6.90 - 6.55 - 6.32, 6.90	6.98 - 6.63 - 6.39, 6.98
CC	OP	kW/kW	3.83	3.71	3.78	3.83	3.71	3.78
Temp. Range Of Inc	ndoor Temp.	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C(59~81°F)				
Heating Ou	utdoor Temp.	W.B.	-20.0~15.0°C (-4~59°F)					
Indoor Unit To	otal Capacity		50~130 % of outdoor unit capacity					
Connectable Mo	lodel / Quantity	City Multi*4	10-140/12	10 - 140 / 12	10 - 140 / 12	10 - 140 / 12	10 - 140 / 12	10 - 140 / 12
		Branch Box*6	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
	Mixed System 1 unit	City Multi	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5
·		Branch Box*5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
	Branch	City Multi	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3
	Box 2 units	Branch Box*5	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
Sound Pressure Level (Measured In Anechoid		dB <a>	52/54	53/56	54/56	52/54	53/56	54/56
Sound Power Level (Measured In Anechoid	ic Room)	dB <a>	72/74	73/76	74/76	72/74	73/76	74/76
Refrigerant Piping Lie	iquid Pipe	mm (in.)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
Diameter Ga	ias Pipe	mm (in.)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
Fan Ty	pe × Quantity		Propeller Fan × 1					
Ai	ir 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
	lotor Output	kW	0.20 × 1	0.20 × 1	0.20 × 1	0.20 × 1	0.20 × 1	0.20 × 1
Ex	xternal Static Pre	ess.	0Pa / 30Pa*6					
	ype × Quantity				Twin rotary hermet	tic compressor × 1		
Starting Method					Inve			
	lotor Output	kW	3.9	3.9	4.2	3.9	3.8	4.1
External dimension H	×W×D	mm			981 × 1,050			
		in.			38-5/8 × 41-3/8	× 13 (+1-37/64)		
Net Weight		kg (lbs)		93 (205)* ⁷			94 (207)*8	

*1,*3 Nominal conditions

	Indoor	door Outdoor		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	

10 to 52°C; incase of connecting PKFY-P15/P20/P25VBM, PKFY-P10/15/20/25/32VLM, 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 It is possible to connect 1 Fresh Air type indoor unit to 1 outdoor unit. (1:1 system)
 *5 At least 2 indoor units must be connected when using branch box.
 *6 0 Pa as initial setting
 *7 94 (207), for PUMYSP112/125/140YKM2-BS
 *8 95 (209), for PUMYSP112/125/140YKM2-BS

Туре				Branch Box				
Model Name	•			PAC-MK54BC PAC-MK34BC				
Connectable	Number of Indoo	r Units		Maximum 5 Maximum 3				
Power Supp	Power Supply (from outdoor unit)			~ / N, 220 / 230 / 240 V, 50	Hz, ~ / N, 220 / 230 V, 60 Hz			
Input			kW	0.0	003			
Running Cur	rent		A	0.05 (N	/lax. 6)			
Dimensions		$H\timesW\timesD$	mm	170 × 450 × 280				
Weight			kg	7.4	6.7			
Piping	Branch	Liquid	mm	ø6.35 × 5	ø6.35 × 3			
Connection (Flare)	[Indoor Side]	Gas	mm	ø9.52 × 4, ø12.7 × 1	ø9.52 × 3			
(Flare)	Main	Liquid	mm	ø9	.52			
	[Outdoor Side]	Gas	mm	ø15.88				

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

<Branch box compatible table>

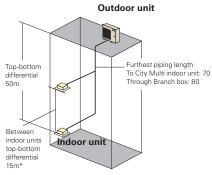
Outdoor unit	Branch box	PAC-MK31/ 51BC(B)	PAC-MK32/ 52BC(B)	PAC-MK33/ 53BC(B)	PAC-MK33/ 54BC
Outdoor unit 1fan	PUMY-SP112/125/140V/YKM2(-BS)	N/A	N/A	√*	√*
Outdoor unit 2fan	PUMY-P112/125/140VKM6(-BS)	N/A	N/A	\checkmark	\checkmark
	PUMY-P112/125/140YKM5(-BS)	N/A	N/A	\checkmark	\checkmark
	PUMY-P200YKM3(-BS)	N/A	N/A	√*	√*
	PUMY-P250/300YBM2(-BS)	N/A	N/A	√*	√*

*ecodan	is	NG

[SP112-140V/YKM2(-BS)]

Refrigerant Piping Lengths	Maximum meters	Vertical differentials I
Total length	120	Indoor/outdoor (out
Maximum allowable length ·······T	1	Indoor/outdoor (out
	unit: 70	Indoor/indoor
Т	hrough Branch box: 80	

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



*In case of branch box connection: 12m

PUMY-P_{SERIES}

Air conditioning system supports replacement work by

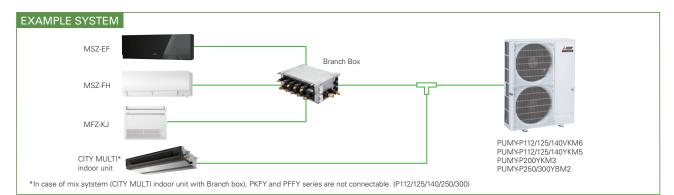
simplifying the installation process. Ideal for supporting re-

newal needs at small offices and stores, home offices, etc.



R410A

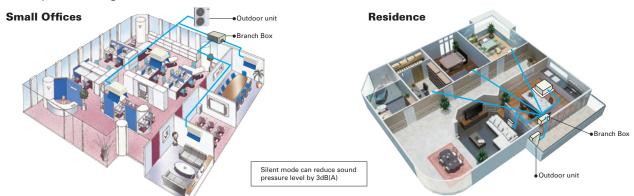
PUMY-P112/125/140VKM6 PUMY-P112/125/140YKM5 PUMY-P200YKM3 PUMY-P250/300YBM2



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 (P250/300: Up to 30) indoor units can be connected with up to 130% connected capacity to maximize engineer's design options. This feature allows easy air conditioning in each area with convenient individual controllers.



			Maximum Meters				
			Only City Multi*1	Only Branch Box	Mixed System (City Multi*	Indoor Unit + Branch Box)	
			Indoor Unit	Connection	City Multi*1 Indoor Unit	Via Branch Box	
P112/125/140	Refrigerant Piping Length	Total Length	300	150	240 (2 Branch boxes) / 300 (1 Branch box)	
		Maximum Allowable Length	150 (175 equivalent)	80	85 (95 equivalent)	80	
		Farthest Indoor From First Branch	30	-	30	-	
		Piping Length Between Outdoor Unit and Branch Boxes	-	55	-	55	
	Vertical Differentials	Indoor/Outdoor (Outdoor higher)	50	50	5	0	
	Between Units	Indoor/Outdoor (Outdoor Lower)	40*2	40	4	0	
		Indoor/Indoor	15	12	12		
P200 Refrigerant P	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	-	30	-	
		Piping Length Between Outdoor Unit and Branch Boxes	-	55	-	55	
	Vertical Differentials	Indoor/Outdoor (Outdoor higher)	50	50	50		
	Between Units	Indoor/Outdoor (Outdoor Lower)	40	40	40		
		Indoor/Indoor	15	12	12		
250/300	Refrigerant Piping Length	Total Length	310	240	310		
		Maximum Allowable Length	150 (175 equivalent)	80	85 (95 equivalent)	80	
		Farthest Indoor From First Branch	30	-	30	-	
		Piping Length Between Outdoor Unit and Branch Boxes	-	95	- 95		
	Vertical Differentials	Indoor/Outdoor (Outdoor higher)	50	50	50		
	Between Units	Indoor/Outdoor (Outdoor Lower)	40	40	4	0	
		Indoor/Indoor	15	12	12		

*1 Include system with connection kit *2 In case of including PKFY or PFFY, height between units is 30m

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-P112/125/140VKM6(-BS), PUMY-P112/125/140YKM5(-BS)only. * Noise level will increase when using this function. 30Pa external static pressure fan motor (option)



PUMY-P SERIES Inverter

Model				PUMY-P112VKM6 (-BS)	PUMY-P125VKM6 (-BS)	PUMY-P140VKM6 (-BS)	PUMY-P112YKM5 (-BS)	PUMY-P125YKM5 (-BS)	PUMY-P140YKM5 (-BS)	PUMY-P200YKM3 (-BS)	PUMY-P250YBM2 (-BS)	PUMY-P300YBM2 (-BS)
Power Source				1-phase 220						hase 380-400-415V 5	0Hz	
Cooling Capacity		¥1	kW	12.5	14.0	15.5	12.5	14.0	15.5	22.4	28.0	33.5
(Nominal)	Power Inp	ut	kW	4.34	5.00	5.17	4.34	5.00	5.17	7.18	8.21	11.96
	Current In	put	A	20.03 - 19.16 - 18.36, 20.03 - 19.16	23.08 - 22.08 - 21.16, 23.08 - 22.08	23.86 - 22.83 - 21.87, 23.86 - 22.83	7.76 - 7.37 - 7.11, 7.76	8.45 - 8.02 - 7.73, 8.45	8.27 - 7.86 - 7.58, 8.27	11.73 - 11.15 - 10.75	13.41 - 12.74 - 12.28	19.54 - 18.56 - 17.89
	EER		kW/kW	2.88	2.80	3.00	2.88	2.80	3.00	3.12	3.41	2.80
Temp. Range of	Indoor Ter	np.	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59 ~75°F)
Cooling	Outdoor T	emp.*2,*3	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)
Heating Capacity		*4	kW	14.0	16.0	18.0	14.0	16.0	18.0	25.0	31.5	37.5
(Nominal)	Power Inp	ut	kW	3.49	4.06	4.63	3.49	4.06	4.63	5.85	7.91	9.69
	Current In	put	A	16.11 - 15.41 - 14.77, 16.11 - 15.41	18.74 - 17.93 - 17.18, 18.74 - 17.93	21.37 - 20.44 - 19.59, 21.37 - 20.44	6.24 - 5.93 - 5.72, 6.24	6.86 - 6.52 - 6.28, 6.86	7.41 - 7.04 - 6.79, 7.41	9.56 - 9.08 - 8.76	12.92 - 12.28 - 11.83	15.83 - 15.04 - 14.50
	COP		kW/kW	4.01	3.94	3.89	4.01	3.94	3.89	4.27	3.98	3.87
Temp. Range Of	Indoor Ter		D.B.						15.0~27.0°C (59~81°F)			15.0~27.0°C (59~81°F)
Heating	Outdoor T		W.B.		-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0° C(-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)	-20.0~15.0°C (-4~59°F)
Indoor Unit	Total Capa				50~130 % of outdoor unit capacity		50~130 % of outdoor unit capacity		50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
Connectable	Model / Qu	antity	City Multi*5	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	10 - 140 / 12	10 - 250 / 30	10 - 250 / 30
			Branch Box*6	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 50 / 12	15 - 50 / 12
	Mixed		City Multi	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 200 / 5	10 - 250 / 25	10 - 250 / 25
	System	1 unit	Branch Box*6	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
			City Multi	10 - 140 / 3 or 2*3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3 or 2*3	10 - 140 / 3	10 - 140 / 3	10 - 200 / 3	10 - 250 / 23	10 - 250 / 23
		2 units	Branch Box*6	15 - 100 / 7 or 8*3	15 - 100 / 8	15 - 100 / 8	15 - 100 / 7 or 8*3	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 50 / 10	15 - 50 / 10
			City Multi	-	-	-	-	-	-	-	10 - 250 / 22	10 - 250 / 22
		3 units	Branch Box*6	-	-	-	-	-	-	-	15 - 50 / 12	15 - 50 / 12
Sound Pressure Leve (Measured In Anecho			dB <a>	49/51	50/52	51/53	49/51	50/52	51/53	57/61	55/61	57/62
Sound Power Level	10 1100111											
(Measured In Anecho			dB <a>	69/71	70/72	71/73	69/71	70/72	71/73	76/80	74/79	75/79
Refrigerant Piping	Liquid Pipe	B	mm (in.)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)*7	9.52 (3/8) *8	12.7 (1/2)
Diameter	Gas Pipe		mm (in.)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (4/3)	22.4 (7/8)	22.4 (7/8)
Fan	Type × Qu			Propeller Fan x 2	Propeller Fan x 2	Propeller Fan × 2	Propeller Fan x 2	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan x 2
	Air Flow R	ate	m³/min	110	110	110	110	110	110	139/141	165/183	165/183
			L/s	1,833	1,833	1,833	1,833	1,833	1,833	2,317/2,350	2,750/3,050	2,750/3,050
			cfm	3,884	3,884	3,884	3,884	3,884	3,884	4,909/4,979	5,826/6,462	5,826/6,462
	Motor Out		kW	0.074 × 2	0.074 × 2	0.074 × 2	0.074 × 2	0.074 × 2	0.074 × 2	0.20 × 2	0.375 × 2	0.375 × 2
Compressor	Type × Qu						Scrol	hermetic compress	or × 1			
Starting Method							Inverter					
	Motor Out	put	kW	2.9	3.5	3.9	2.9	3.5	3.9	5.3	8.87	10.15
External Dimension H	l × W × D		mm				338 × 1,050 × 330 (+					0 × 460 (+45)
			in.			52-11/	16 × 41-11/32 × 13 (+				65-7/16 × 41-11/32	
Net Weight			kg (lbs)		123 (271)			125 (276)		141 (311)	192	(423)

Net Weight *1.*4 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

*2 10 to 52°C D.B.: When connecting PKFYP10/15/20/25/32VLM, PKFYP15/20/25/BM, PFFYP20/25/32VKM and PFFYP20/25/32VCM, PFFYP20/25/32VLE(R)M, PEFYP-VMA3, M, S and P series indoor unit.

*3 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 It is possible to connect 1 Fresh Air type indoor unit to 1 outdoor unit. (1:1 system)
*6 At least 2 indoor units must be connected when using branch box.
*7 Liquid pipe diameter: 12.7mm when piping length is more than 60m.
*8 Liquid opie diameter: 12.7mm, when further piping length is longer than 90m, and when PEFYP200 or P250 is connected.

Туре				Branch Box			
Model Name	9			PAC-MK54BC	PAC-MK34BC		
Connectable	Number of Indoo	or Units		Maximum 5	Maximum 3		
Power Supp	ly (from outdoor	unit)		~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 Hz			
Input kW				0.003			
Running Cur	ng Current A			0.05 (Max. 6)			
Dimensions		H × W × D	mm	170 × 450 × 280			
Weight			kg	7.4	6.7		
Piping	Branch	Liquid	mm	ø6.35 × 5	ø6.35 × 3		
Connection	[Indoor Side]	Gas	mm	ø9.52 × 4, ø12.7 × 1	ø9.52 × 3		
(Flare)	Main	Liquid	mm	ø9.	52		
	[Outdoor Side]	Gas	mm	ø15.88			

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

PUMY-SM SERIES

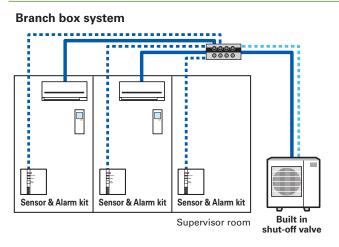
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.



R32

PUMY-SM112/125/140VKM PUMY-SM112/125/140YKM

System of R32 PUMY



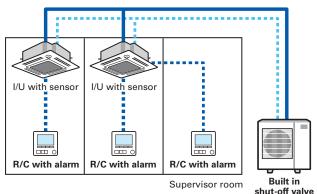
Summary of System component

S&A kit • Remote controller

	Appearance	System	Features
S&A kit	PAC-SK60SA-E	Branch box	Connected from branch box Sensor and alarm in the device Have 3 types of LED (operation, detection, error) Detection of refrigerant leakage, a kit alerts and LED flashes in red Alarm can be stopped only by a kit in a room that refrigerant leakage occurred
Remote controller	PAR-41MAAB	• Free Plan	Connected from indoor unit Alarm in the device Have a display In case of refrigerant leakage, R/C alerts and error code and address of indoor unit is shown Alarm can be stopped by a R/C in a room that refrigerant leakage occurred and a supervisor room

* Can be used as a Wired remote control in a Branch box system. However, in this case, a separate S/A kit connection is required

Free plan system



* Solid lines are refrigerant piping. Dotted lines are communication lines

Branch box

Drai	ICH DOX		
		「	
Model nar	ne	PAC-MMK40BC(B)	PAC-MMK60BC
Number o	f ports	4 ports	6 ports
Refrigerar	it	R32	R32
Input(kW)		0.003	0.006
Running c	urrent(A)	0.15	0.30
Size(mm)	Н	170	170
	W	450	665
	D	372	420
Installation	Ceiling-suspended	1	1
	Floor-standing	1	1
	Vertical	1	1
	No need drainpan	1	1
Connection	Flare connection	1	1
	Blazing	1	-

EER

< SEER / SCOP >

	1st	6.35/9.52
	2nd	6.35/9.52
	3rd	6.35/12.7
	4th	6.35/9.52
	5th	6.35/9.52
	6th	9.52/15.88
g/ 1g	• If n ele	ing connection from both side and ing connection from one side. ecessary, you need to flip over only ctrical box to connect from the er side.
ility	fro • Flip diff • ø9. larg	ssible to make piping connection m both side. poing over only electrical box is no ïcult for installer. 52/ø15.88 can be connected to i ge indoor unit placed in a living m or other large room.

SEER

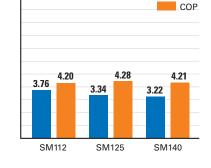
Energy efficiency

Even with its compact size and lightweight, it has a high EER and COP. Costs are reduced with the energy saving abilities.

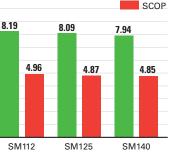
* Temperature conditions

EER : Indoor 27°C DB / Outdoor 35°C DB

COP : Indoor 20°C DB / Outdoor 7°C DB SCOP/SEER: Based on ErP Lot 21/6 calculation method to EN14825.



< EER / COP >

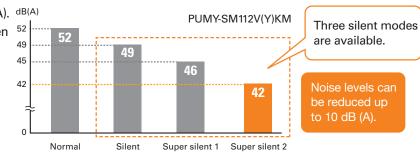


Super silent mode*

- Noise level can be reduced up to 10dB(A). dB(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.
Cooling mode only.



PUMY-SM SERIES Inverter VVV PAM

EER kW / kW 3.76 3.34 3.22 3.76 3.34 Temp. Range of Cooling Indoor Temp.*1 W.B. 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75°F) <td< th=""><th>15.5 4.81 - 7.35 - 7.09 / 7.74 3.22 - 24.0°C (5975°F) 52.0°C (23126°F) 175 4.16 - 6.31 - 6.08 / 6.64 4.21 - 27.0°C (5981°F) - 15.0°C (-4-59°F)</th></td<>	15.5 4.81 - 7.35 - 7.09 / 7.74 3.22 - 24.0°C (5975°F) 52.0°C (23126°F) 175 4.16 - 6.31 - 6.08 / 6.64 4.21 - 27.0°C (5981°F) - 15.0°C (-4-59°F)
Power Input Current Input kW 3.32 4.19 4.81 3.32 4.19 Current Input A 15.40 - 14.73 - 14.12 / 15.40 19.43 - 18.59 - 17.81 / 19.43 22.45 - 21.47 - 20.58 / 22.45 5.31 - 5.04 - 4.86 / 5.31 6.70 - 6.37 - 6.14 / 6.70 7.74 Femp. Range of Cooling Indoor Temp.*1 W.B. 15.0 - 24.0°C (59 - 75°F) 15.0 - 24.0°C (59 - 75°F) 15.0 - 24.0°C (59 - 75°F) 15.0 - 24.0°C (23 - 126°F) -5.0 - 52.0°C	4.81 - 7.35 - 7.09 / 7.74 3.22 -24.0°C (59–75°F) 52.0°C (23–126°F) 17.5 4.16 - 6.31 - 6.08 / 6.64 4.21 -27.0°C (59–81°F) - 7.5.0°C (4–59°F)
Current Input A 15 40 - 14 .73 - 14 .12 / 15 40 19.43 - 18.59 - 17.81 / 19.43 22.45 - 21.47 - 20.58 / 22.45 5.31 - 5.04 - 4.86 / 5.31 6.70 - 6.37 - 6.14 / 6.70 77.4 EER kW / kW 3.76 3.34 3.22 3.76 3.34 5.00 Temp. Range of Cooling Indoor Temp*1 W.B. 15.0 - 24.0°C (59-75°F) 15.0 - 52.0°C (23-126°F) 5.0 - 52.0°C (23-1	- 735 - 709 / 7.74 3.22 -24.0°C (59-75°F) 52.0°C (23-126°F) 175 4.16 -6.31 - 6.08 / 6.64 4.21 -270°C (59-81°F) - 15.0°C (4-59°F)
EER kW / kW 3.76 3.34 3.22 3.76 3.34 Temp. Range of Cooling Indoor Temp.*1 W.B. 15.0-24.0°C (59-75°F) 15.0-24.0°C (23-126°F) -5.0-52.0°C (23-126°F) -5.0-5	3.22 -24.0°C (59-75°F) 52.0°C (23-126°F) 17.5 4.16 -6.31 - 6.08 / 6.64 4.21 -27.0°C (59-81°F) ~15.0°C (-4-59°F)
Temp. Range of Cooling Indoor Temp.*1 W.B. 15.0-24.0°C (59-75°F) 15.0-24.0°C (59-75	-24.0°C (59~75°F) 52.0°C (23~126°F) 17.5 4.16 - 6.31 - 6.08 / 6.64 4.21 ~27.0°C (59~81°F) ~15.0°C (-4~59°F)
Cooling Outdoor Temp.*** D.B. 5.0-52.0°C (23-126°F) -5.0-52.0°C (23-126°F)<	52.0°C (23~126°F) 17.5 4.16 - 6.31 - 6.08 / 6.64 4.21 ~27.0°C (59~81°F) ~15.0°C (-4~59°F)
Heating Capacity (Nominal) kW 14.0 16.0 17.5 14.0 16.0 Quere Input kW 3.33 3.74 4.16 3.33 3.74 Current Input A 15.45 - 14.77 - 14.16 / 15.45 1730 - 16.55 - 15.86 / 1730 19.25 - 18.41 - 17.64 / 19.25 5.33 - 5.06 - 4.88 / 5.33 5.97 - 5.46 / 5.97 6.64 - 4.21 COP kW/ kW 4.20 4.28 4.21 4.20 4.28	17.5 4.16 - 6.31 - 6.08 / 6.64 4.21 ~27.0°C(59~81°F) ~15.0°C (-4~59°F)
Power Input kW 3.33 3.74 4.16 3.33 3.74 Current Input A 15.45 - 14.77 - 14.16 / 15.45 17.30 - 16.55 - 15.66 / 17.30 19.25 - 18.41 - 17.64 / 19.25 5.33 - 5.06 - 4.88 / 5.33 5.97 - 5.67 - 5.46 / 5.97 6.64 - 6.42 COP KW / KW 4.20 4.28 4.21 4.20 4.28	4.16 - 6.31 - 6.08 / 6.64 4.21 ~27.0°C(59~81°F) ~15.0°C (-4~59°F)
Current Input A 15.45 - 14.77 - 14.16 / 15.45 1730 - 16.55 - 15.86 / 1730 19.25 - 18.41 - 17.64 / 19.25 5.33 - 5.06 - 4.88 / 5.33 5.97 - 5.67 - 5.46 / 5.97 6.64 - COP kW / kW 4.20 4.28 4.21 4.20 4.28	- 6.31 - 6.08 / 6.64 4.21 ~27.0°C(59~81°F) ~15.0°C (-4~59°F)
COP kW/kW 4.20 4.28 4.21 4.20 4.28	4.21 ~27.0°C(59~81°F) ~15.0°C (-4~59°F)
	~27.0°C(59~81°F) ~15.0°C (-4~59°F)
Temp Bange Of Indeer Temp D.B. 15.0. 270°C (50. 91°E) 15.0. 270°C (5	~15.0°C (-4~59°F)
$10.0\%27.0 \ C(33\%011)$	
Heating Outdoor Temp. W.B20.0~15.0°C (4~59°F) -20.0~15.0°C (4~5	
Indoor Unit Total Capacity 50-130 % of outdoor unit capacity 50-130 % of o	% of outdoor unit capacity
Connectable Model / Quantity City Multi 10-140/12 10-140/12 10-140/12 10-140/12 10-140/12 10-140/12	10 - 140 / 12
Branch Box 15 - 100 / 8 15 - 100 / 8 15 - 100 / 8 15 - 100 / 8 15 - 100 / 8	15 - 100 / 8
Branch City Multi 10 - 140 / 3 or 5 ⁺⁴ 10) - 140 / 3 or 5*4
box 1 unit Branch Box 15 - 100 / 4 or 6*5 15 -	5 - 100 / 4 or 6*5
Branch City Multi 10 - 140 / 2 or 3*6 10	- 140 / 2 or 3*6
box 2unit Branch Box 15 - 100 / 8 15 - 100 / 8 15 - 100 / 8 15 - 100 / 8 15 - 100 / 8	15 - 100 / 8
Sound Presuure Level (Cooling/Heating) dB <a> 52/54 53/56 54/56 52/54 53/56	54/56
Sound Power Level (Cooling/Heating) dB <a> 72/74 74/76 74/76 72/74 74/76	74/76
Refrigerant Piping Liquid Pipe mm (in.) 9.52 Flare 9.52 Flare 9.52 Flare 9.52 Flare 9.52 Flare 9.52 Flare	9.52 Flare
Diameter Gas Pipe mm (in.) 15.88 Flare 15.88 Flare 15.88 Flare 15.88 Flare 15.88 Flare 15.88 Flare	15.88 Flare
Fan Type × Quantity Propeller Fan × 1	opeller Fan × 1
Air Flow Rate m ³ /min 77 83 83 77 83	83
L/s 1,283 1,383 1,383 1,283 1,383	1,383
cfm 2,719 2,931 2,931 2,719 2,931	2,931
Motor Output kW 0.20 × 1 0.20 × 1 0.20 × 1 0.20 × 1 0.20 × 1	0.20 × 1
External Static Press. 0Pa / 30Pa*7	0Pa / 30Pa*7
Compressor Type × Quantity Twin rotary hermetic compressor × 1	
Starting Method Inverter	
Motor Output kW 2.3 2.6 3.0 2.3 2.6	3.0
External Dimension H × W × D mm 981 × 1,050 × 330 (+40)	
in. 38-5/8 × 41-3/8 × 13 (+1-37/64)	
NetWeight kg (lbs) 95 (209)* ⁶ 97(214) * ⁹	
Pre-Charged Weight kg 3.0 3.0 3.0 3.0 3.0 3.0 3.0	3.0
Quantity CO2 equivalent t 2.03 2.03 2.03 2.03 2.03 2.03	2.03
Max System Weight kg 7.5 7.5 7.5 7.5 7.5 7.5 7.5	7.5
Quantity CO2 equivalent t 5.06 5.06 5.06 5.06 5.06	

* www

 Quantity
 CO2 equivalent
 t
 5.06
 5.06
 5.06
 5.06
 5.06

 *11 15 to 23°C when using branch box(M/S/P series)
 *2 10 to 52°C. incase of connecting PKr+MS*VKM, PKF+MS*VLM indoor unit and M series, S series and P series type indoor unit with branch box.
 *3 -15 to 52., when using an optional air protect guide [PAC-SH95AC-E]. However, this condition does not apply to the indoor unit listed in*1.
 *4 When connected branch box is PAC-MMK60BC, connectable City Multi indoor units are 3; connected branch box is PAC-MMK40BC(B), connectable indoor units are 5.
 *50 When connected branch box is PAC-MMK40BC(B) and PAC-MMK60BC, connectable City Multi indoor units are 5;

 *6 When connected branch boxes are PAC-MMK40BC(B) and PAC-MMK60BC and PAC-MMK60BC are not allowed.
 *7 O Pa as initial setting

 *7 O Pa as initial setting
 *8 96 (212), for PUMY-SM112/125/140YKM-BS

Indoor unit connectable table

Model		PUMY-SM112V(Y)KM	PUMY-SM125V(Y)KM	PUMY-SM140V(Y)KM
CM Indoor Only		12	12	12
Branch Box Only		8	8	8
Mix System	CM Indoor	3	3	3
Branch Box 1unit	Branch Box	6	6	6
PAC-MMK60BC		9	9	9
Mix System	CM Indoor	5	5	5
Branch Box 2unit	Branch Box	4	4	4
PAC-MMK40BC(B)		9	9	9
Mix System	CM Indoor	2	2	2
Branch Box 2unit	Branch Box	8	8	8
PAC-MMK60BC + P	AC-MMK40BC(B)	10	10	10
Mix System	CM Indoor	3	3	3
Branch Box 2unit	Branch Box	8	8	8
PAC-MMK40BC(B)	2unit	11	11	11

■ PUMY-SP Series Branch Box Connection Compatibility Table for PUMY-SP112/125/140

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

*1 Some functions that can be used by connecting to the P series outdoor unit cannot be used with the PUMY series.

LEV Kit Connection Compatibility Table for PUMY-SP112/125/140

Series	I/U Type	Model Name					Cap	acity				
Series	i/O Type	WIDGermanie	15	18	20	22	25	35	42	50	60	71
M series	Wall-Mounted	MSZ-LN•VG2										
		MSZ-AP•VG(K)	•		•		•	•	•	•		
		MSZ-AY•VG(K)(P)										
		MSZ-FH•VE2					•	•		•		
		MSZ-EF•VG(K)		•			•	•	•	•		
		MSZ-SF•VA										
		MSZ-AP•VF-E	•		•							
		MSZ-SF•VE3										
	Floor-Standing	MFZ-KT•VG					•	•		•		

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

Series	Туре	Model Name							Cap	pacity						
Series	Type	woder warne	P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY	1-way cassette	PMFY-P•VBM-E														
MULTI series	2-way cassette	PLFY-P•VLMD-E												•		
series	4-way cassette	PLFY-M•VEM-E														
		PLFY-M•VEM6-E												•		
		PLFY-P•VBM-E														
		PLFY-P•VEM-E												•		
		PLFY-P•VCM-E														
		PLFY-P•VFM-E														
	Ceiling-concealed	PEFY-P•VMR-E-L/R														
		PEFY-P•VMS1(L)-E														
		PLFY-P•VMA(L)-E														
		PEFY-M•VMA(L)-A(1)														
		PEFY-P•VMH(S)-E														
		PEFY-P•VMH-E-F														
		PEFY-P•VMHS-E-F														
	Ceiling-suspended	PCFY-P•VKM-E	•													
	Wall-mounted	PKFY-P•VLM-E														
		PKFY-P•VBM-E														
		PKFY-P•VHM-E														
		PKFY-P•VKM-E														
	Built in	PDFY-P•VM-E														
	Floor-standing	PFFY-P•VKM-E2														
		PFFY-P•VLEM-E														
		PFFY-P•VLRM-E														
		PFFY-P•VLRMM-E														
		PFFY-P•VCM-E														
	Lossnay *1								GUF-50/	100RD(H)4						

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

■ PUMY-P Series Branch Box Connection Compatibility Table for PUMY-P112/125/140/200

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

LEV Kit Connection Compatibility Table for PUMY-P112/125/140/200

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

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

Series	Turne	Model Name							Cap	acity						
Series	Туре	woder name	P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY	1-way cassette	PMFY-P•VBM-E														
MULTI	2-way cassette	PLFY-P•VLMD-E				•			•	•			•			
series	4-way cassette	PLFY-M•VEM-E								•			•			
		PLFY-M•VEM6-E				•			•	•	•		•			
		PLFY-P•VFM-E														
	Ceiling-concealed	PEFY-P•VMR-E-L/R														
		PEFY-P•VMS1(L)-E								•						
		PEFY-M•VMA(L)-A(1)							•	•	•		•			
		PEFY-P•VMHS-E														
		PEFY-P•VMHS-E-F														
	Ceiling-suspended	PCFY-P•VKM-E														
	Wall-mounted	PKFY-P•VLM-E														
		PKFY-P•VKM-E														
	Floor-standing	PFFY-P•VKM-E2														
		PFFY-P•VLEM-E														
		PFFY-P•VLRM-E														
		PFFY-P•VLRMM-E														
		PFFY-P•VCM-E														
	ATW	PWFY-P•VM-E1 *1														
	Lossnay *2								GUF-50/1	00RD(H)4						

CITY MULTI Indoor Unit Compatibility Table for PUMY-P200

Series	Туре	Model Name							Cap	acity						
Selles	type	Woder Name	P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY	1-way cassette	PMFY-P•VBM-E														
MULTI	2-way cassette	PLFY-P•VLMD-E					•									
series	4-way cassette	PLFY-M•VEM-E														
		PLFY-M•VEM6-E					•						•	•		
		PLFY-P•VFM-E														
	Ceiling-concealed	PEFY-P•VMR-E-L/R				•	•									
		PEFY-M•VMA(L)-A(1)					•									
		PEFY-P•VMHS-E								•			•	•	•	
		PEFY-P•VMHS-E-F														
	Ceiling-suspended	PCFY-P•VKM-E											•	•		
	Wall-mounted	PKFY-P•VLM-E														
		PKFY-P•VKM-E											•			
	Floor-standing	PFFY-P•VKM-E2														
		PFFY-P•VLEM-E				•										
		PFFY-P•VLRM-E														
		PFFY-P•VLRMM-E														
		PFFY-P•VCM-E														
	Lossnay *2								GUF-50/1	00RD(H)4						

*1 Note that connection is not allowed inside EU countries and UK. PWFY can not connect to PUMY-P200YKM3.
*2 Do not connect Lossnay remote controller(s). (PZ-61DR-E, PZ-60DR-E, PZ-52SF-E, PZ-43SMF-E)

■ PUMY-P Series Branch Box Connection Compatibility Table for PUMY-P250/300

Series	Туре	Model Name					Capacity						
Series	Type	Woder Name	15	18	20	22	25	35	42	50	60	71	100
M series	Wall-Mounted	MSZ-LN•VG2											
		MSZ-RW•VG-E					•	•		•			
		MSZ-AP•VG(K)											
		MSZ-AY•VG(K)(P)	•				•	•	•	•			
		MSZ-FH•VE2											
		MSZ-EF•VG(K)											
	Floor-Standing	MSZ-KT•VG											
S series	Ceiling Concealed	SEZ-M•DA(L)2											
	2×2 Cassette	SLZ-M•FA2						•					
P series	Ceiling Suspended	PCA-M•KA2											•
	4-way Cassette	PCA-M•EA2						•				•	•
	Ceiling Concealed	PEAD-M•JA(2)											

LEV Kit Connection Compatibility Table for PUMY-P250/300

Series	I/U Type	Model Name	Capacity									
Selles	1/0 Type		15	18	20	22	25	35	42	50		
M series	Wall-Mounted	MSZ-LN•VG2										
		MSZ-AP•VG(K)										
		MSZ-AY•VG(K)(P)	•							•		
		MSZ-FH•VE2										
		MSZ-EF•VG(K)					•		•			
	Floor-Standing	MFZ-KT•VG										

CITY MULTI Indoor Unit Compatibility Table for PUMY-P250/300

Series	Tura	Model Name								Capacity							
Series	Туре	woder name	P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
CITY MULTI series	1-way cassette	PMFY-P•VBM-E															
	2-way cassette	PLFY-P•VLMD-E			•	•	٠	•	•	•			•	٠			
561165	4-way cassette	PLFY-M•VEM-E								•							
		PLFY-M•VEM6-E															
		PLFY-P•VFM-E															
	Ceiling-concealed	PEFY-P•VMR-E-L/R				•											
		PEFY-P•VMS1(L)-E		٠			٠		٠	•							
		PEFY-M•VMA(L)-A							•					•	•		
		PEFY-P•VMA(L)-A1			•	•	٠		•	•	٠						
		PEFY-P•VMHS-E													•		•
		PEFY-P•VMHS-E-F															
	Ceiling-suspended	PCFY-P•VKM-E								•			•	•			
	Wall-mounted	PKFY-P•VLM-E					•										
		PKFY-P•VKM-E															
	Floor-standing	PFFY-P•VKM-E2															
		PFFY-P•VLEM-E			•	•	٠	•	•	•							
		PFFY-P•VCM-E								•							
	Lossnay *1								GUF	-50/100RE	(H)4						

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

■ PUMY-SM Series

Branch Box Connection Compatibility Table for PUMY-SM112/125/140

Model Na	me	15	18	20	22	25	35	42	50	60	71	100
M series	MSZ-RW•VG											
	MSZ-LN•VG2						•		•			
	MSZ-AP•VG(K)	•		•								
	MSZ-AY•VG(K)(P)	•		•		•	•	•	•			
	MSZ-EF•VG(K)		•		•							
	MSZ-BT•VG(K)					•	•					
	MLZ-KY•VG											
	MLZ-KP•VF											
S series	SEZ-M•DA(L)2									•		
	SLZ-M•FA2	•					•		•			
P series	PCA-M•KA2									•		
	PLA-M•EA2											
	PEAD-M•JA(L)2								•			

CITY MULTI Indoor Unit Compatibility Table for PUMY-SM112/125/140

Model Na	ıme	Sensor	10	15	20	25	32	40	50	63	71	80	100	125	140
CITY	PLFY-M•VEM6-E				•	•	•			•	•	•			
MULTI series	PEFY-M•VMA(L)-A1				•	•	•		•	•	•	•		•	•
Selles	PLFY-MS•VEM-E	\checkmark			•	•	•	٠	•	•		•	٠		
	PLFY-MS•VFM-E	<		•	•	•	•		•						
	PCFY-MS•VKM-E	\checkmark						٠		•			٠	٠	
	PKFY-MS•VLM-E	\checkmark	•	•	•	•	•		•						
	PKFY-MS•VKM-E	\checkmark								•					
	PEFY-MS•VMA(L)-A	\checkmark				•	•		•	•		•			•

Outdoor Unit Functions

Demand control

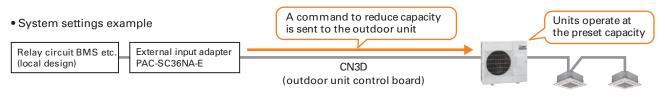
This function reduces the capacity of the outdoor/heat source unit by way of the external input to the outdoor unit.

The capacity of the outdoor unit can be reduced in steps, with patterns ranging from 2 to 12 control steps depending on the system. The number of steps that can be set and the corresponding capacity are shown below.

• 2 steps (0-100%) • 4 steps (0-50-75-100%) • 8 steps (0-25-38-50-63-75-88-100%) • 12 steps (0-17-25-34-42-50-59-67-75-84-92-100%)

Possible usage

When power consumption is centrally-controlled within a building, the system can be made to operate in capacity-save mode by receiving external signals



Pump down function

This function collects the refrigerant that remains in the indoor unit and the outdoor/heat source unit piping when the refrigerant piping needs to be removed, such as when the air conditioner is relocated.

This function can also be used to stop the operation of the indoor unit and return the refrigerant to the outdoor/heat source unit in the event that a r efrigerant leak is detected.

* To detect a refrigerant leak, a circuit that includes a refrigerant leak detection sensor must be designed and prepared on site

Dual Set point

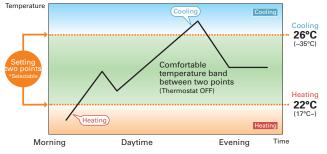
Normally, the desired room temperature is set to the same value for cooling and heating. However, the dual set point function allows different temperatures to be set for cooling and heating. When operation switches from cooling to heating or vice versa, the preset temperature changes accordingly.

Setting dual set points in Auto mode on R2 models improves energy efficiency, compared to setting a single set point.

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

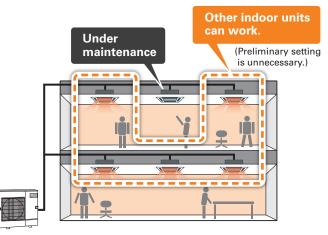
The outdoor unit does not operate in the comfortable temperature band defined by two temperature points where the thermostat is off. This cuts down on unnecessary operation of the air conditioning system. This function is supported only when all the indoor units, remote controllers, and system control lers that are connected to a given group are compatible with the function.

• Operation pattern in Auto (dual set point) mode



Individual LEV control

Even if one of the indoor units stops for repair, the LEV of the indoor unit can be closed so that the other indoor units can continue to operate. (No preliminary setting is necessary.)



NEW ECODESIGN DIRECTIVE

WHAT IS THE ErP DIRECTIVE?

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

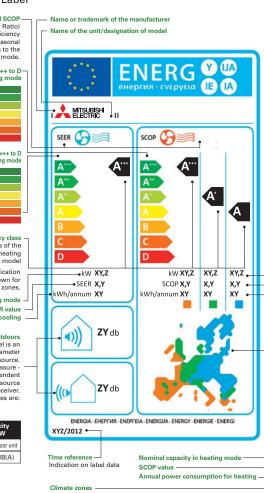
Regulations that apply to air conditioning systems of rated capacity up to 12kW came into effect as of January 1, 2013. Based the use of futureorientated technologies, Mitsubishi Electric is one step ahead of these changes, with our air conditioning systems already achieving compliance with these new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

NEW ENERGY LABEL AND MEASUREMENTS

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

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

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



■New Energy Efficiency Label

■Climate Zones for Heating Mode

SEER and SCOP. The SEER (Seasonal Energy Efficiency Ratio) value indicates the seasonal energy efficiency value in the cooling mode. The SCOP (Seasonal Coefficient of Performance) value refers to the seasonal efficiency in the heating mode. Energy efficiency classes from A+++ to D SCOP in heating mode A+++ > 5.1 A++ > 4,6 Energy efficiency classes from A+++ to D SEER in cooling mode A+++ > 8,5 Energy efficiency class Energy efficiency class of the unit in cooling and heating mode of the unit model In the heating mode, the indication for the unit model is shown for all three climate zones. Nominal capacity in cooling mode SEER value Annual power consumption for co Operating noise, indoors/outdoors The sound power level is an important sound energy parameter for assessing a sound source. Contrary to the sound pressure the sound power is independent of the location of the source and/or the receiver. Maximally admissible values are:

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

Climate zones For heating mode, the EU is divided into three climate zones for calculation and classification purposes. This aims at calculating the energy efficiency taking into consideration the actual regional ambient temperatures. Reference climate zones for calculating the SCOP Since the climate conditions have a great influence on the operating behaviour in the heat pump mode, three climate zones have been stipulated for the EU: warm, moderate, cold. The measurement points are homogenous at 12°C, 7°C, 2°C and –7°C.



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

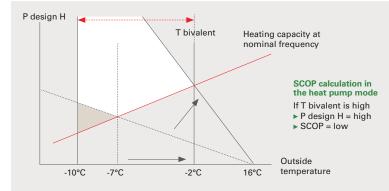
	Temperat	ure conditions	
Partial	Outdoors		Indoors
load	DB	WB	DB
88%	-7°C	–8°C	20°C
54%	2°C	1°C	20°C
35%	7°C	6°C	20°C
15%	12°C	11°C	20°C

Temperature conditions										
Partial	Outdoors		Indoors							
load	DB	WB	DB							
61%	-7°C	–8°C	20°C							
37%	2°C	1°C	20°C							
24%	7°C	6°C	20°C							
11%	12°C	11°C	20°C							

SEER/SCOP

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

■SCOP Calculation



Technical Terms with Respect to the SCOP

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

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

SOUND PRESSURE LEVEL

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

Sound Pressure vs Sound Power Level



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

Sound power level dB(A) The sound power is an acoustic parameter whi describes the source strength of a sound general

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

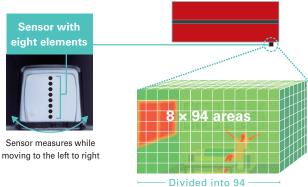
COMFORT

3D i-see Sensor

(Image)

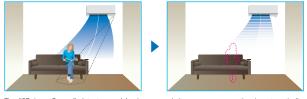
3D i-see Sensor for M SERIES

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



No occupancy energy-saving mode

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



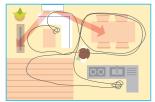
The "3D i-see Sensor" detects people's absence and the power consumption is automatically reduced approximately 10% after 10 minutes and 20% after 60 minutes.

Indirect Airflow

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



Even Airflow *LN Series only Normal swing mode



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

No occupany Auto-OFF mode *LN Series only

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



Direct Airflow

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



Even airflow mode



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

ENERGY-SAVING

Econo Cool Energy-Saving Feature

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

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

Econo Cool Mode

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

Econo Cool on



16 18 20 22 24 26 28





Demand Function (Onsite Adjustment)

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

[Example: Power Inverter Series]

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

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

*PUHZ outdoor only

AIR DISTRIBUTION

Double Vane

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

🍃 Horizontal Vane

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

🔭 Vertical Vane

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

🖏 High Ceiling Mode

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

💹 Low Ceiling Mode

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

😘🗤 Auto Fan Speed Mode

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

irculator Mode Circulator Mode

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

AIR QUALITY

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

<LN series> Neutralizes 99% of Staphylococcus aureus in 162 minutes in a 25 m³ test space. Test No.2016-0118 tested by KRCES-Bio.

tested by KRCES-Bio



<AY series 15/20 > Neutralizes 99% of Staphylococcus aureus in 20 minutes.*¹ Test No.2022_1528 tested by KRCES-Bio. Neutralizes 93.9% in one pass conversion.



<LN series> Neutralized 99.8% of SARS-CoV-2 in 360 minutes.*1

Test No.20KB070569 tested by Japan Textile Products Quality and Technology Center Neutralizes 99% of Influenza A virus particles in 72minutes in a 25 m³ test space. Test No.28-002 tested by vrc.center, SMC

<AY series 25-50>

Neutralized 99.8% of SARS-CoV-2 in 360 minutes.*1 Test No.20KB070569 tested by Japan Textile Products Quality and Technology Center Neutralizes 99% of Influenza A virus particles in 210.5minutes in a 25 m³ test space. Test No. R4-001 tested by National Hospital Organization Sendai Medical Center

<AY series 15/20 > Neutralizes 99% of Influenza A virus particles in 20 minutes.*¹ Test No. 2022_0528 tested by KRCES-Bio. Neutralizes 95.8% in one pass conversion.

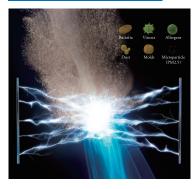
Allergens

<LN series> Neutralizes 98% of cat fur and pollen.*1 Test No. T1606028 tested by ITEA Inc.

<AY series 25-50> Neutralizes 98% of cat fur and pollen.*1 Test No. T1606028 tested by ITEA Inc.

<AY series 15/20 > Neutralizes 91.8% of pollen.*1 Test No. T2301012 tested by ITEA Inc.

Image of Plasma Quad Plus





<LN series> Neutralizes 90% of PM2.5 particles in 83minutes, 99% of PM2.5 particles in 166minutes in a 28 m³

test space. In-Company Investigation

<AY series 25-50> Neutralizes 90% of PM2.5 particles in 189 minutes, 99% of PM2.5 particles in 378 minutes in a 28 m³ test space. Test No. LSRL 21010 F105 tested by Life Science Research Laboratory (Japan)

<AY series 15/20 > Neutralizes 90% of PM2.5 particles in one pass. Test No. LSRL_21010_G063 tested by Life Science Research Laboratory (Japan)



Neutralizes 99% of Penicillium citrinum in 135 minutes in a 25 m³ test space.

<LN series>

Molds



Test No. 16069353001-0201 tested by Japan Food Research Laboratories

<AY series 25-50> Neutralizes 99% of Penicillium citrinum in 251 minutes in a 25 m³ test space. Test No.22046475001-0401 tested by Japan Food Research Laboratories

<AY series 15/20 > Neutralizes 99% of Penicillium citrinum in 191 minutes in a 25 m3 test space. Test No. LSRL-2101-G060 tested by Japan Food Research Laboratories

Dust

<LN series> Neutralizes 99.7% of dust and mites.*¹ Test No.T1606028 tested by ITEA Inc.

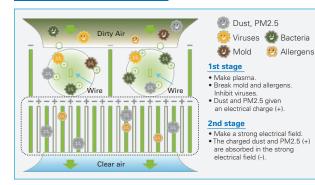


<AY series 25-50> Neutralizes 99.7% of dust and mites.*1 Test No.T1606028 tested by ITEA Inc.

<AY series 15/20 > Neutralizes 97% of dust (JIS test POWDER 1 Class 11(JIS11)).*1 Test No.LSRL:21010_G063 tested by ITEA Inc.

*1 The test was conducted on the Plasma Quad Plus device alone, not designed to evaluate product performance

Principle of Plasma Quad Plus





Hi-performance Plasma Filtration System

Quad Connect (Optional Parts) Plasma

Plasma Quad Connect is an high-performance air purifying device which can even be installed on the existing units, contributing to a better air quality in your room. Plasma Quad Connect applies a voltage of 6,000 volts to the electrode to generate plasma, effectively removing various kinds of particles such as viruses, bacteria, molds, allergens, dust, and PM2.5.



Specifications

Model Name	MAC-100FT-E	PAC-HA11PAR, PAC-HA31PAR PAC-HA21PAU, PAC-HA31PAU (Attachment for Ducted Indoor Units)*1.*3	PAC-KE91PTB-E, PAC-KE92PTB-E PAC-KE93PTB-E, PAC-KE94PTB-E PAC-KE95PTB-E (Box for Ducted Indoor Units) *1, *3	PAC-SK51FT-E *4	SLP-2FAP , SLP-2FALP SLP-2FALMP2
Product Image		PQ attachment	+5 L PQ box		
Compatible with	MSZ, PKA, and PKFY*2 (Wall mounted models)	SEZ, PEAD, and PEFY $^{\ast 2}$	PEAD, and PEFY $^{\ast 2}$	PLA and PLFY ^{*2} (4-way Cassette 3×3 models)	SLZ, and PLFY ^{*2} (2×2 Cassette)
Input Voltage	Single Phase AC220~240V	_	_	Single Phase AC220~240V	Single Phase AC220~240V
Fequency	50/60Hz	_	-	50/60Hz	50/60Hz
Power Consumption	4W	_	_	4W	4W
Size H×W×D	56mm × 499.5mm × 168mm	*6	247mm×917mm×179mm* ⁷	134mm × 840mm × 840mm	20mm × 625mm × 625mm
Weight	1,600g	360g *6	4,570g *7	8,700g	4,400g

*1 Both MAC-100FT-E and PQ Attachment or PQ box will be required when using with ducted models. *2 Please contact your nearest sales office about compatible model. *3 Specifications are subject to change without notice. *4 When multi-functional casement or automatic filter elevation panel is used/installed, PAC-SK51FT-E can not be used. *5 The image shows rear suction. *6 Depends on model. Shows weight of PAC-HA11PAR. *7 Depends on model. Shows size/weight of PAC-KE92PTB-E. *8 Plasma Quad Connect cannot be used with PAC-SK54/46KFE (V blocking filter).

Test Report Results Following test results were conducted under controlled laboratory conditions. Performance might differ in real life environment.

Tested Materials		Tested Standard	Capacity	Time	Result	Testing Organization	Test Report
Virus	New Coronavirus (SARS-CoV-2)	Original	_*8	360min	99.8% inhibited ^{*9}	Japan Textile Products Quality and Technology Center	20KB070569
Vilus	Influenza A	JEM1467	25m [®]	175min	99% inhibited *10	SMC Virus Research Center Japan (JAPAN)	R2-003
Bacteria	Staphylococcus Aureus	GB21551.6-2010	30m [®]	335min	99% inhibited *10	CHEARI (Beijing) Certification & Testing Co., Ltd.	WK-21-50161
Mold	Penicillium Citrinum	JEM1467	25m ³	160min	99% inhibited *10	Life Science Research Laboratory (JAPAN)	LSRL- 51021E-E091
Allergen	Cat Fur and Pollen	Original	*8	-	98% inhibited *11	Institute of Tokyo Environmental Allergy (JAPAN)	No.T1606028
Dust	Dust and Mites	Original		_	99.7% inhibited *11	Institute of Tokyo Environmental Allergy (JAPAN)	No.T1606028
PM 2.5	Cigarette smoke	JEM1467	25m [®]	300min	99% inhibited *10	Life Science Research Laboratory (JAPAN)	SRL-21010E- E091

*8 The test was conducted on the Plasma Quad device alone, not designed to evaluate product performance. *9 The result without the effect of natural attenuation is 96.3%. *10 The result is based on the test with a device installed on the representative indoor unit. (MSZ-AP series) *11 It shows the result when allergen and dust pass through the device once.

AIR QUALITY

📿 Self Clean mode

When Self Clean Mode is activated, fan operation starts after cooling/dry mode. This operation helps to dry inside indoor unit to prevent molds and odors. You can feel the clean air without frequent cleaning by yourself.

High humidity inside the unit, which can lead to mold growth and odors.



Airflow operation suppresses mycelial growth.



3 Maintains clean unit interior.



Filters & Cleaning Functions

🚬 Fresh-air Intake

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

🔜 High-efficiency Filter

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

👕 Air Purifying Filter

The filter has a large capture area and also generates antibacterial, antifungal, and deodorant effects.

📑 Oil Mist Filter

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

🔝 Long-life Filter

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



Filter Check Signal

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

📆 Silver-ionized Air Purifier Filter

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

Dual Barrier Coating

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

Dual Barrier Material

Antifouling materials are kneaded into horizontal vane and vertical vane, preventing dust and greasy dirt accumulating on the surface of indoor unit.

Deodorising Filter

The catalyst in the Deodorising Filter denatures the odorous components and destroys them from the source of the odour, quickly delivering fresh air to your room.

Filter

V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.

CONVENIENCE

CONVENIENCE

🔝 "i save" Mode

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

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







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

🤗 Auto Changeover

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

Low-temperature Cooling

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



Ampere Limit Adjustment

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

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

💳 Operation Lock (Indoor unit)

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

🛻 Operation Lock (Outdoor unit)

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

Auto Restart Auto Restart

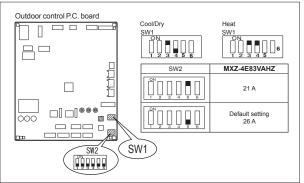
Especially useful at the time of power outages, the unit turns back on automatically when power is restored.

💵 10°C Heating

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

*MLZ and MFZ series: Only when using "i-save" mode, the temperature can be set to 10°C, but not in 1°C increments.

DIP Switch Setting (Board for MXZ-5E102)





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

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

Built-in Weekly Timer Function

*The cooling/heating capacity may drop.

*Night mode does not function when connected to MXZ.

🔊 Low-noise Operation (Outdoor Unit)

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



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

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

Example Operation Pattern (Winter/Heating mode)

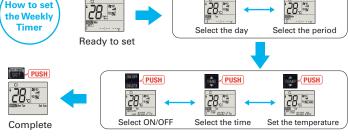
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.	
c.00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	
6:00		Automatically changes to high-power operation at wake-up time						
8:00								
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C	
12:00 14:00		Automatically turned off during work hours				Midday is warmer, so the temperature is set lower		
16:00								
(8:00	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	
00:05		Automatically turns on, synchronized with arrival at home				Automatically raises temperature setting to match time when outside-air temperature is low		
(during sleeping hours)								
(uuring steeping tours)	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





er <mark>-{ PUSH</mark>

1~4 - PUSH

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

Back Light Remote Controller

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



The setting can be easily checked in the dark.

INSTALLATION & MAINTENANCE

INSTALLATION

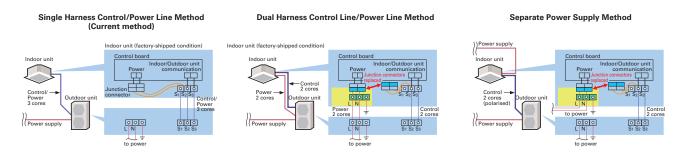
Cleaning-free Pipe Reuse

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

Reuse of Existing Wiring

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

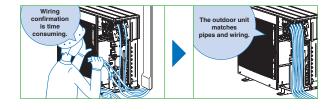
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently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



Wiring/Piping Correction Function*

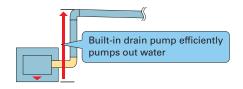
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served.

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



Drain Pump

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





Flare connection to cooling pipe work is possible.



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

Outdoor unit control circuit board





Push this switch to start/ stop refrigerant recovery operation automatically. (Valve in refrigerant circuit is opened/closed.)

Pump Down Switch

Pump down switch

n switch

MAINTENANCE

Self-Diagnostic Function (Check Code Display)

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

Failure Recall Function

Operation failures are recorded, allowing confirmation when needed.

SYSTEM CONTROL

SYSTEM CONTROL

PAR-41MAA/PAC-YT52CRA/PAC-CT01MAA

Units are compatible for use with the PAR-41MAA, PAC-YT52CRA or PAC-CT01MAA remote controller, which has a variety of management functions.

Group Control

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

M-NET Connection

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

MELCloud (Wi-Fi interface)

System Group Control

MELCloud for fast, easy remote control and monitoring

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

Key control and monitoring features

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

Schedule timer - Set 7 day weekly schedule Error status

A MTSLESH

4 Energy Consumption Monitoring





MELCloud uses the MAC-587IF interface

COMPO (Simultaneous Multi-unit Operation)

Multiple indoor units can be connected to a single outdoor unit. (Depending on the unit combination, connection of up to four units is possible; however, all indoor units must operate at the same settings.)

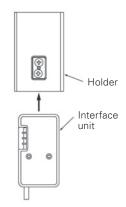


Connection to the MXZ multi-split outdoor unit is possible.

When mounting on the wall

The interface can be mounted simply by affixing the holder to the wall on either side of the unit and inserting the interface unit into the holder.

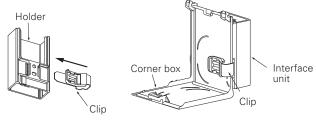




*When mounting on the right side of the unit

When mounting on the outer side of the unit

The interface can be mounted on the right side, left side, bottom right, or bottom left of the indoor unit. After inserting the clip into the holder, slip the clip over the edge of the corner box.





Right side



Bottom right



Left side



Bottom left

CONTROL TECHNOLOGIES

Extended cooling set temperature range*

In environments such as gyms where people do strenuous exercise, even if the room is cooled to an appropriate temperature, people may feel that it is hot, and they need a cooler air. To satisfy such demands, we have extended the lower limit of the cooling set temperature range from 19-30°C. to 14-30°C. *Insulation kit (PAC-SK36HK-E) is required when indoor unit is PLA series.
*Availability of this function is depending on outdoor unit, indoor unit and remote controller.



Display of model names and serial numbers*

The model names and serial numbers of the indoor/outdoor units that are connected to the MA smart remote controller can be automatically acquired and displayed through one simple operation. This eliminates the need to directly check each unit and helps with inquiries in the case of an abnormality. *Availability of this function is depending on outdoor unit, indoor unit and remote control

indoor unit and remote com	indoor unit and remote controller.					
Model name	Collect model names and S/N					
display	0 OU PUZ-ZM200YKA2					
(example)	IU1 PLA-ZM50EA2					
	IU2 PLA-ZM50EA2					
	IU3 PLA-ZM50EA2					
	IU4 PLA-ZM50EA2					
	Collect data: 🗸					
	— Address + S/N					
Serial number	Collect model names and S/N					
 Serial number display 	Collect model names and S/N Ø OU 1ZU00001					
•••••						
display	0 OU 1ZU00001					
display	0 0U 1ZU00001 IU1 1ZA00001 IU2 1ZA00002 IU3 1ZA00003					
display	0U 1ZU00001 IU1 1ZA00001 IU2 1ZA00002					
display	0 0U 1ZU00001 IU1 1ZA00001 IU2 1ZA00002 IU3 1ZA00003					
display	0 OU 1ZU00001 IU1 1ZA00001 IU2 1ZA00002 IU3 1ZA00003 IU4 1ZA00004					

Preliminary error history*

In addition to error history, the history of permissible abnormalities can be displayed. The feature enables the unit status check during inspection and maintenance *Availability of this function is depending on outdoor unit, indoor unit and remote controller

Error history (Sample)								
	Error	history	1/4					
Error	Unt#	dd/mm/yy						
E0	0-1	21/10/20	PM12:34					
E0	0-1	20/12/20	AM 1:23					
E0	0-1	20/11/20	PM10:55					
E0	0-1	20/10/20	PM12:01					
Error hi	story	menu: 🔊						
🔍 Pao	e 🔺		Delete					

Preliminary error history (Sample) Preliminary error hist. 1/8 Line 1.44 Later Zero

ELLOL	ULLH	ии/ пш/ уу	
EØ	0-1	21/10/20	PM12:34
EØ	0-1	20/12/20	AM 1:23
E0	0-1	20/11/20	PM10:55
E0	0-1	20/10/20	PM12:01
Error his	story	menu: 🔊	
🔍 Paqe	• 🔺		Delete

Display of power consumption*

It is possible to measure, acquire, and display the amount of energy used by each air conditioning system.

*Availability of this function is depending on outdoor unit, indoor unit and remote controller. Energy consumption values are calculated from estimated power consumption values according to the operating conditions. They may vary from the actual power consumption values. Please note that the power consumption of optional parts is not included except in the case of optional parts that have their power supplied directly by the outdoor unit.

< Data Collection Period >

Time data: Every 30 minutes over the past month Monthly/daily data: Monthly over the past 14 months

•Every 30 minutes (example)

Energy data					
2019- 1-1	1234.5kWh 1/6				
0:30 123.4kWh	2:30 123.4kWh				
1:00 123.4kWh	3:00 123.4kWh				
1:30 123.4kWh	3:30 123.4kWh				
2:00 123.4kWh	4:00 123.4kWh				
Return: 🔊					
– Date +	🛛 🔻 🖌 🖌				

Horizontal airflow settings

The 4-way cassette model with 3D Total Flow system lets you easily set the horizontal airflow direction. This allows you to freely tailor the air conditioning performance according to your particular space and purpose.

*PLP-P160ELR-E is required to activate this function.

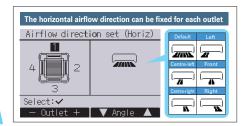
Daily (example)

•======					
	E	Energy	/ data		
2019-	- 1	1	23456.	7kWh	1/4
31	1234.	5kWh	27	1234.	5kWh
30	1234.	5kWh	26	1234.	5kWh
- 29	1234.	5kWh	25	1234.	5kWh
28	1234.	5kWh	24	1234.	5kWh
Retur	n: 🔊 -				
	anc	A			

When 3D Total Flow is equipped

Monthly (example)

Ene	ergy data						
▶2019-1	123456.7kWh	1/3					
2018-12	123456.7kWh						
2018-11	123456.7kWh						
2018-10	123456.7kWh						
2018- 9	123456.7kWh						
View daily c	lata: 🗸						
🛛 🛡 Cursor 🖌							



Wi-Fi interface setting



EasyTo Read & EasyTo Use Inverted display screen

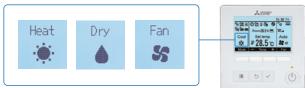
The screen background color can be set to black to suit the atmosphere of the installation location.

Full Dot Liquid-crystal Display Adopted

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

Display Example [Operation Mode]

Full Dot LCD



Multi-language Display

Multilanguage Control panel operation in fourteen different languages

Choose the desired language, among the following languages.

English	Spanish	Italian	Turkish
French	Greek	Portuguese	Swedish
German	Russian	Polish	Czech
Hangarian	Dutch		

Temperature Control



Two preset temperatures

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

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

Energy-efficient Control Operation Control Functions

Energysaving Schedule

Precise control of power consumption

The amount of power consumed in each time period is managed so that the demand value is not exceeded. The demand control function can be set to start and finish in 5-minute units.

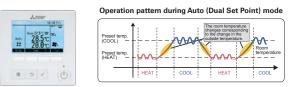
Additionally, the level can be adjusted to 0, 50, 60, 70, 80 or 90% of maximum capacity, and up to 4 patterns can be set per day. Air-conditioning operation is automatically controlled to ensure that electricity in excess of the contracted volume is not consumed.

Auto-return

Prevents wasteful operation by automatically returning to the preset temperature after specified operating time

After adjusting the temperature for initial heating in winter or cooling on a hot summer day, it is easy to forget to return the temperature setting to its original value. The Auto-return function automatically resets the temperature back to the original setting after a specified period of time, thereby preventing overheating/overcooling. The Auto-return activation time can be set in 10-minute units, in a range between 30 and 120 minutes.

*Auto-return cannot be used when Temperature Range Restrictions is in use.



*Please refer to the function list on page 205-211 for the combination of the available units.

Setting pattern example

		10.0	
Start time	Finish time		Capacity savings
8:15	\rightarrow	12:00	80%
12:00	\rightarrow	13:00	50%
13:00	\rightarrow	17:00	90%
17:00	\rightarrow	21:00	50%

Auto-off Timer

Turns heating/cooling off automatically after preset time elapses

When using Auto-off Timer, even if one forgets to turn off the unit, operation stops automatically after the preset time elapses, thereby preventing wasteful operation. Auto-off Timer can be set in 10-minute units, in a range between 30 minutes and 4 hours. Eliminates all anxiety about forgetting to turn off the unit.

Recommended for Meeting room Changing room

CONTROL TECHNOLOGIES

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





PAC-CT01MAA-SB

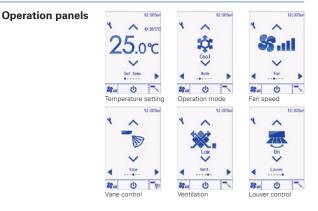
PAR-CT01MAA-PB

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









Touch Panel

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

Multiple color pattern

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

Control parameter customize

Users can customize the panel to display the selected parameters only.

• Control parameter customize

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



Logo image customization Logo image can be displayed on the initial screen.



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





147

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

Bluetooth® low energy technology

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



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



Convenient BLE transmission functions for installation contractors

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

• Previous model

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

New model

Ċ

20

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





Convenient BLE transmission functions for guests

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

Smartphone connectivity

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



Multilingual support

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



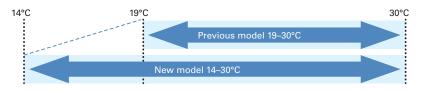
CONTROL TECHNOLOGIES

Wireless Remote Controller PAR-SL101A-E

Extended cooling set temperature range*

In environments such as gyms where people do strenuous exercise, even if the room is cooled to an appropriate temperature, people may feel that it is hot, and they need a cooler air. To satisfy such demands, we have extended the lower limit of the cooling set temperature range from 19–30°C. to 14–30°C.

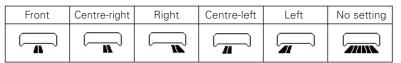
*Insulation kit (PAC-SK36HK-E) is required when indoor unit is PLA series. *Availability of this function is depending on outdoor unit, indoor unit and remote controller.

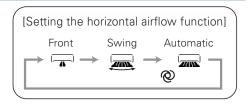




Horizontal airflow settings

The 4-way cassette model complete with the Smart 360-degree Airflow system lets you easily set the horizontal airflow direction. This allows you to freely tailor the air conditioning performance according to your particular space and purpose.





WeeklyTimer

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



	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
C.00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
6:00			Automatically change	es to high-power opera	tion at wake-up time		
800							
1000	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00 14:00		Automatic	ally turned off during v	vork hours		Midday is warmer, so the temperature	
16:00							
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
0005	Automatically turns on, synchronized with arrival at home					Automatically raises ten match time when outsic	nperature setting to le-air temperature is low
(during sleeping	ON_18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
hours)		Automa	atically lowers tempera	ture at bedtime for ene	ergy-saving operation a	t night	

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

*Only for SLZ-KF25/35/50/60VA2, PLA-ZP/RP35/50/60/71/100/125/140EA

Backlight

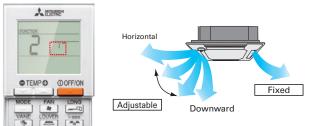
Backlight function incorporated, making screen easy to read in the dark. Even in dimly lit rooms, the screen can be seen clearly for trouble-free remote controller operation.





Individual Vane Settings

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



Battery Replacement Sign

Previous wireless remote controllers were not easy to read, understand or use sometimes because the battery was low. Beginning with the PAR-SL101A-E, a battery charge indicator that shows the charge status is included in the LCD so it can be seen when the battery is low and needs to be changed.



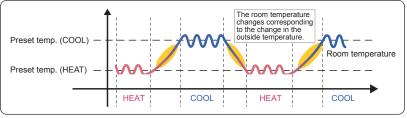
Dual Set Point

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





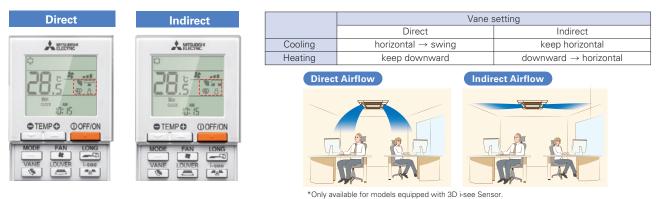
Operation pattern during Auto (Dual Set Point) mode



* Only available for compatible models.

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

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



Basic Functions

Functions	Button	Liquid crystal		
OFF / ON	① OFF/ON			
Preset temperature		88 .5		
Mode	MODE	Cool Dry Heat Fan Auto Dual set point function not operational first use.		
Fan speed	FAN	4-Speed Auto		
Vane angle	VANE M	5-step Swing Auto		
Louver	WIDE VANE	Fixed Swing		
3D i-see Sensor	i-see	Direct Indirect		
Send sign		· · · · · · · · · · · · · · · · · · ·		
Battery replacement sign				
Function setting		(FUNCTION)		
Test run		TEST		
Self check		CHECK		
Not available		N/A		

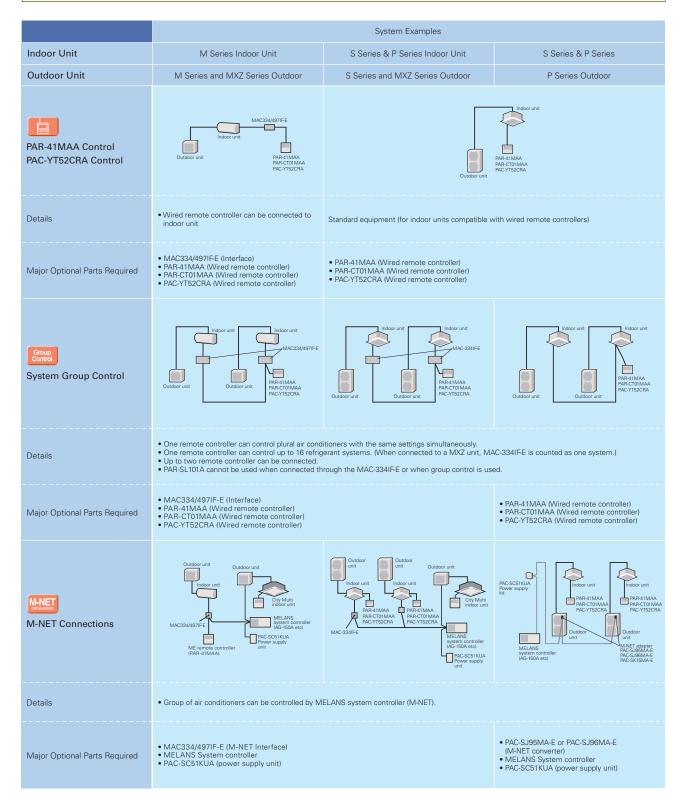
*This remote controller is only compatible with the following models: SLZ-M15/25/35/50/60FA, PLFY-P15/20/25/32/40/50VFM-E1, PLA-ZM/RP35/50/60/71/100/125/140EA, PLFY-P20/25/32/40/50/63/80/100/125VEM-E

*Functions available vary according to the model.

SYSTEM CONTROL

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

MAJOR SYSTEM CONTROL



OTHERS

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

	System Examples	Connection Details	Control Details	Major Optional Parts Required
Remote On/Off Operation Air conditioner can be started/ stopped remotely. (① and ② can be used in combination)	MAC-334IFE Switch Indoor unit Remote control section (to be purchased locally)	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	On/Off operation is possible from a remote location.	 MAC-334IF-E (Interface) Parts for circuit such as relay box, lead wire, etc. (to be purchased locally)
2 Remote Display of Operation Status • The On/Off status of air conditioners can be confirmed remotely. (1] and 2] can be used in combination)	AAC-334IFE Power supply Remote monitor section to be purchased locally	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	The operation status (On/Off) or error signals can be monitored from a remote location.	MAC-334IF-E (Interface) Parts for circuit to be purchased locally (DC power source needed) External power source (12V DC) is required when using MAC-334IF-E.

For P Series and S Series Indoor Units

	System Examples			
	Wired remote controller	Wireless remote controller	Details	Major Optional Parts Required
A 2-remote Controller Control With two remote controllers, control can be performed locally and remotely from two locations.	PAR-41MAA PCACYTSZCRA * Set *Main' and *Sub' remote controllers. (Example of 1 : 1 system)	PAR-SL97/101A-E PAR-SL97/101A-E PAR-41MAA PAC-YTE2CRA *When using writed and writeless remote controllers (Example of Simultaneous Twin)	 Up to two remote controllers can be connected to one group. Both wired and wireless remote controllers can be used in combination. 	Wired Remote Controller PAR-41MAA PAC-YT52CRA (for PKA, PAC-SH29TC-E is required) Wireless Remote Controller PAR-SL97A-E/PAR-SL101A-E (only for SL2) Wireless Remote Controller Kit for PCA PAR-SL94B-E
B Operation Control by Level Signal Air conditioner can be started/ stopped remotely. In addition, On/Off operation by local remote controller can be prohibited/permitted.	Relay box (to be purchased locally)	Relay box (to be purchased locally) Adapter for ON/Off PAR-SL97/101A-E (Example of 1 : 1 system x 2)	 Operation other than On/Off (e.g., adjustment of temperature, fan speed, and airflow) can be performed even when remote controller operation is prohibited. Timer control is possible with an external timer. 	Adapter for remote On/Off PAC-SE55RA-E Relay box (to be purchased locally) Remote control panel (to be purchased locally)
C Operation Control by Pulse Signal	Relay box (to be purchased locally)	Relay box (to be purchased locally)	 The pulse signal can be turned On/Off. Operation/emergency signal can be received at a remote location. 	Connector cable for remote display PAC-SA88HA-E/PAC-725AD (10 pcs. x PAC-SA88HA-E) Relay box (to be purchased locally) Remote control panel (to be purchased locally)
D Remote Display of Operating Status Operating status can be displayed at a remote location.	Remote operation addented Connector cable for ennote display + Relay tox Frequencies and the second second second Remote gasel PAR-41MAA/PAR-CT01MAA/ PAC-T15CCRA (Example of 1: 1 system)	Remote operating the second display + Relay box Remote one display + Remote one display + Rem	• Operation/emergency signal can be received at a remote location (when channeled through the PAC-SF40RM-E → no-voltage signal, when channeled through the PAC-SA88HA-E → DC 12V signal).	Remote display panel (to be purchased locally) Connector cable for remote display PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E) Relay box (to be purchased locally) Remote operation adapter PAC-SF40RM-E *Unable to use with wireless remote controller
E Timer Operation Allows On/Off operation with timer *For control by an external timer, refer to B Operation Control by Level Signal.	(Example of 1 : 1 system)		 Weekly Timer: On/Off and up to 8 pattern temperatures can be set for each calendar day. (Initial setting) On/Off Timer: On/Off can be set once each within 72 hr in intervals of 5-minute units. Auto-off Timer: Operation will be switched off after a certain time elapse. Set time can be changed from 30 min. to 4 hr. at 10 min. intervals. Simple Timer and Auto-off Timer cannot be used at the same time. 	Standard functions of PAR-41MAA / PAR-CT01MAA

FUNCTION LIST (1)

ategory	Icon					Marpiro					
	icon	107 DW05/05/	MSZ-LN18/25/35/	107 5705/05/	NO7 AV(15)	M SERIES		107 5510/00/05/05	1 NOZ DT00/05/	107 1005 (05 (
	Indoor unit Outdoor unit	MSZ-RW25/35/ 50VG	50/60VG2 (W)(V)(R)(B)	MSZ-FT25/35/ 50VG	MSZ-AY15/ 20VGK(P)	MSZ-AY25/35/ 42/50VGK(P)	MSZ-AP60/71VG	MSZ-EF18/22/25/35/ 42/50VG(W)(B)(S)	/ MSZ-BT20/25/ 35/50VG	MSZ-HR25/35/ 42/50/60/71VF	
	-	MUZ-RW	MUZ-LN	MUZ-FT	MUZ-AY	MUZ-AY	MUZ-AP	MUZ-EF	MUZ-BT	MUZ-HR	
hnology	DC Inverter	•	•	•	•	•	•	•	•	•	L
	Joint Lap DC Motor	•	•	•	•	•	•	•	•	•	F
	Reluctance DC Rotary Compressor	ļ'	 '	<u> '</u>	<u> </u>	<u> </u>	<u> </u>	<u> </u> '		<u> </u>	+
	Heating Caulking (Compressor)	•	•	•	•	•	•	•	•	•	4
	DC Fan Motor	•	•	•	•	•	•	•	•	•	1
	PAM (Pulse Amplitude Modulation)	•	•	•	•	•	•	•	•	•	₽
	Power Receiver and Twin LEV Control	<u> </u>	'	<u> </u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>	ļ'		<u> </u> '	+
1 Canoor	Grooved Piping	•	•	•	•	•	•	•	•	•	₽
i-see Sensor	Felt Temperature Control (3D i-see Sensor)	•	•	<u> '</u>	L	<u> </u>	<u> </u> '	ļ'		<u> </u>	+
	AREA Temperature Monitor	•	•	· · · ·			· · · ·	· · · ·	-	· · · ·	┡
Energy Saving	Econo Cool Energy-saving Feature	•	•	•	•	•	•	•	•	•	+
	Standby Power Consumption Cut	•	•	•	•	•	•	•	•	ļ'	4
Air Quality	Plasma Quad Plus	•	•	<u> </u>	•*1	•*1	<u> </u>	<u> </u> '		<u> </u>	4
	Plasma Quad			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	ļ'	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	4
	Dual Barrier Coating	•	•	<u> </u>		<u> </u>	<u> </u>	<u> </u> '		<u> </u>	4
	Dual Barrier Material	•		ļ'			ļ'	· · · · ·		· · · · · · · · · · · · · · · · · · ·	4
	Silver-ionized Air Purifier Filter	<u> </u>	Opt	•	Opt	Opt	Opt	•	Opt	Opt	+
I I	V Blocking Filter	Opt	Opt	•	•*2	•*2	•	•	•	Opt	4
	Air Purifying Filter	<u> </u>		•	•	•	•	•	•	•	1
ļ	Self Clean Mode			ļ'	•	•	ļ'	·'		ļ'	4
Air Distribution	Double Vane	•	•	<u> </u>		<u> </u>	<u> </u>	<u> </u> '		<u> </u>	t
	Horizontal Vane	•	•	•	•	•	•	•	•	•	4
	Vertical Vane	•	•	•		•	•	<u> </u> '		<u> </u>	+
	High Ceiling Mode			ļ'			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	4
	Auto Fan Speed Mode	•	•	•	•	•	•	•	•	•	4
	Circulator Mode	•*3	•*3	•*3		•*3	<u> </u> '	'		· · · · · · · · · · · · · · · · · · ·	4
Convenience		•	•	•	•	•	•	•	•	•	4
	"i save" Mode	•	•	•	•	•	•	•	•	· · · · · · · · · · · · · · · · · · ·	4
	Auto Changeover	•	•	•	•	•	•	•		<u> </u>	1
	Auto Restart	•	•	•	•	•	•	•	•	•	4
	Low-temperature Cooling	•	•	•	•	•	•	•	•	•	1
	10°C Heating	•	•	•	•	•	•	′	•	′	4
	Low-noise Operation (Outdoor Unit)	<u> </u>	['	<u>['</u>	[<u> </u>	<u>['</u>	[′		['	ĺ
	Night Mode	•	•	•	•	•	•		•		4
	Ampere Limit Adjustment	<u> </u>	[<u>['</u>	[<u> </u>	<u>['</u>	['	<u> </u>	<u>['</u>	1
	Operation Lock (Indoor)	•	•	•	•	•	•		•	'	4
	Operation Lock (Outdoor)	!		L'		· · · · · · · · · · · · · · · · · · ·	<u> </u>	<u> </u>		<u> </u>	1
	Built-in Weekly Timer Function	•	•	•	•	•	•	•		'	4
	Drive Mode Selector	•		<u> </u>		′	<u> </u>	<u> </u>		<u> </u>	1
System Control	PAR-41MAA Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	4
001110	PAR-CT01MAA Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	1
	PAC-YT52CRA Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	4
	Centralised On/Off Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Ţ
	System Group Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	ĺ
	M-NET Connection *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Į
	Wi-Fi Interface *6	•	•	•	•	•	•	•	•	•	ĺ
	Energy Consumption Monitoring through MELCloud	<u> </u>		· · · · · · · · · · · · · · · · · · ·		,				· · · · · · · · · · · · · · · · · · ·	ĺ
Installation	Cleaning-free Pipe Reuse	•	٠	•	•	•	•	•	•	•	ĺ
	Wiring/Piping Correction Function	<u> </u>		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	ĺ
	Drain Pump						[]			· · · · · · · · · · · · · · · · · · ·	ĺ
	Flare Connection	•	٠	٠	•	•	•	•	•	•	ĺ
Maintenance	Self-Diagnosis Function (Check Code Display)	•	•	•	٠	•	•	•	•	•	Í
	Failure Recall Function	•	•	•	•	•	•	•	•	•	ſ

		M SERIES		
MSZ-DW25/35/ 50VF	MFZ-KT25/35/ 50/60VG	MFZ-KW25/35/ 50/60VG	MLZ-KP25/35/ 50VF	MLZ-KY20VG
MUZ-DW	SUZ-M	MUFZ-KW	SUZ-M	Multi
 •	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•
•	٠	•	•	٠
٠	•	•	•	٠
•	•	•	•	•
	•	•		•
Opt	Opt	Opt	Opt	Opt
Opt	•	•	Opt	•
•	•	•	•	•
•	•	•	•	•
			•	•
			•	•
 •	•	•	•	•
•	•	•	•	•
	•	•	•	•
	•*4	•*4	•*4	•*4
•	•	•	•	•
•	•	•	•	•
	•	•	•	•
			٠	•
	•	•	•	•
Ort	Oct	Ont	Ont	Ont
Opt Opt	Opt Opt	Opt Opt	Opt Opt	Opt Opt
Opt	Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt
Opt	Opt	Opt	Opt	Opt
ορι •	Opt	Opt	Opt	Opt
	- /*			
•	•	•	•	•
			•	•
			•	•
•	•	•	•	•
•	•	•	•	•
•	•	•	•	•

FUNCTION LIST (2)

Category	Icon			S SERIES				P se	RIES	
	Indoor unit	SLZ-M15/25/	35/50/60FA2 *1	SEZ-M25/35/	50/60/71DA(L)2	SFZ-M25/35/ 50/60/71VA	PLA-ZM35/50/60/ 71/100/125/140EA2	PLA-M35	6/50/60/71/100/12	5/140EA2
	Undoor unit G Outdoor unit	SUZ-M	PUZ-ZM	SUZ-M	PUZ-ZM	SUZ-M	PUZ-ZM	PUZ-ZM	SUZ-M	PUZ-M
unction	3D Total Flow						•	•		•
nerit-up	2+1 Back-up rotation		•		•		•	•		•
	Extended cooling set temperature range						•	•		•
	Display of model names and serial numbers		•		•		•	•		•
	Display of power consumption	•	•	•	•	•	•	•	•	•
	Avoiding simmltaneous defrosting	_	•		•		•	•		•
	Defrosting when people are absent		•				•	•		-
	Defrosting when operation is stopped		•		•		•	•		
	Collection of operation data via MELCloud		•		•		•	•		•
	Demand control via MELCloud		•		•		•	•		•
	Notification of potential abnormality via MELCloud		•		•		•	•		•
Technology	DC Inverter	•	•	•	•	•	•	•	•	•
rechnology	Joint Lap DC Motor	•	•	•		•	-	_	-	-
			•	•			35-71	35-71	•	100
	Magnetic Flux Vector Sine Wave Drive		•				•	•		•
	Reluctance DC Rotary Compressor	•		•		•	35-71	35-71	•	100-140
	Highly Efficient DC Scroll Compressor	-	•	-		-	100-250	100-250		200-250
	Heating Caulking (Compressor)	•		•		•	35-71	35-71	•	100
	DC Fan Motor	•	•	•		•	•	•	•	•
	Vector-Wave Eco Inverter		•				•	•		•
	PAM (Pulse Amplitude Modulation)	•	•	•		•	35-140	35-140	•	100-140V
	Power Receiver and Twin LEV Control		•				35-250	35-250		100-250
	Grooved Piping	•	•	•		•	•	•	•	•
i-see Sensor	Felt Temperature Control (3D i-see Sensor)	Opt	Opt				Opt	Opt	Opt	Opt
	AREA Temperature Monitor	Opt	Opt				Opt	Opt	Opt	Opt
Energy Saving	Demand Function						Opt	Opt		Opt
Attractive	Pure White	•	•				•	•	•	•
	Auto Vane	•	•				•	•	•	•
Air Quality	Fresh-air Intake	•	•				•	•	•	•
	High-efficiency Filter						Opt	Opt	Opt	Opt
	Oil Mist Filter									
	Long-life Filter	•	•				•	•	•	•
	Filter Check Signal	•	•				•	•	•	•
Air	Horizontal Vane	•	•				•	•	•	•
Distribution	Vertical Vane									
	High Ceiling Mode	•	•				•	•	•	•
	Low Ceiling Mode						•	•	•	•
	Auto Fan Speed Mode	•	•	•		•	•	•	•	•
Convenience	On/off Operation Timer	•	•	•		•	•	•	•	•
	Auto Changeover	•	•	•		•	•	•	•	•
	Auto Restart	•	•	•		•	•	•	•	•
	Low-temperature Cooling	•	•	•		•	•	•	•	•
ŝ	Low-noise Operation (Outdoor Unit)		•				•	•		•
Functions	Ampere Limit Adjustment		60-140V					60-140V 200/250		_
Fun	Operation Lock									
	Rotation, Back-up and 2nd Stage Cut-in Functions		•				•	•		•
	Dual Set Point *2		•				•	•		•
System	PAR-41MAA Control *3	Ont		Ont		Ont			Opt	
Control	PAR-CT01MAA Control *3	Opt	Opt	Opt		Opt	Opt	Opt		Opt
	PAC-YT52CRA Control *3	Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt
	Centraliesd On/Off Control *3	Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt
		Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt
	System Group Control *3	Opt	Opt	Opt		Opt	•	•	Opt	•
	M-NET Connection *3	Opt		Opt		Opt	Opt	Opt	Opt	Opt
Inct-II. "	COMPO		71-140				71-250	71-250		•
Installation	Cleaning-free Pipe Reuse	•	•	•		•	•	•	•	•
	Reuse of Existing Wiring						Opt	Opt		Opt
	Wiring/Piping Correction Function									
		•	•	Opt			•*4	•*4	•*4	•*4
	Drain Pump									•
	Pump Down Switch						•	•		-
		•	•	•		•	•	•	•	•
Maintenance	Pump Down Switch	•	•	•		•			•	

SLZ-M15 can be connected with R32 MXZ only.
 This function is only available with PAR-41MAA, PAC-YT52CRA, PAR-SL101A-E.
 Please refet or "System Control" on pages for details.
 PEAD-M JAL are not equipped with a drain pump.

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

FUNCTION LIST (3)

Category	Icon						P SERIES					
Category		1										
	20mbin ation	Indoor unit	PEAD-M38	5/50/60/71/100/125	/140JA(L)2	PEA-M20	00/250LA2	PKA-M38	5/50LA(L)2	PKA-M60/7	1/100KA(L)2	
	d mo	Outdoor unit	PUZ-ZM	PUZ-M	SUZ-M	PUZ-ZM	PUZ-M	PUZ-ZM	PUZ-M	PUZ-ZM	PUZ-M	
Function	3D Total Flow											
merit-up	2+1 Back-up rotation		•	•		•	•	•	•	•	•	
	Extended cooling set ten	nerature range				-		•	•	•	•	
	Display of model names		•	•		•	•	•	•	•	•	
	Display of power consum		•	•	•	•	•	•	•	•	•	
		-	•	•	•	•	•	-	•			
	Avoiding simmltaneous d		•	•		•	•	•	•	•	•	
	Defrosting when people a											
	Defrosting when operation		•			•		•		•		
	Collection of operation da		•	•		•	•	•	•	•	•	
	Demand control via MEL	Cloud	•	•		•	•	•	•	•	٠	
	Notification of potential ab	normality via MELCloud	•	•		•	•	•	•	•	•	
Technology	DC Inverter		•	•	•	•	•	•	•	•	•	
	Joint Lap DC Motor		35-71	100	•			35-71	100	60/71	100	
	Magnetic Flux Vector Sine	e Wave Drive	•	•		•	•	•	•	•	•	
	Reluctance DC Rotary Co	ompressor	35-71	100-140	٠			35-71	•	60/71	100-140	
	Highly Efficient DC Scroll	Compressor	100-250	200/250		•	•	100-200		100-250	200/250	
	Heating Caulking (Compr	essor)	35-71	100	•			35-71		60/71	100	
	DC Fan Motor		•	•	•	•	•	•	•	•	•	
	Vector-Wave Eco Inverter		•	•		•	•	•	•	•	•	
	PAM (Pulse Amplitude Me		35-140	100-140V	•		-	35-140	100V-140V	60-140	100-140V	
	Power Receiver and Twin	,		100-1400		•	•				100-1400	
	Grooved Piping	227 001101	35-250					35-200	100-140	60-250		
i.con 0		2D i ang 8	•	•	•	•	•	•	•	•	•	
i-see Sensor	Felt Temperature Control (3											
	AREA Temperature Monit	or										
	g Demand Function		Opt	Opt		Opt	Opt	Opt	Opt	Opt	Opt	
Attractive	Pure White							•	•	•	•	
	Auto Vane							•	•	•	•	
Air Quality	Fresh-air Intake											
	High-efficiency Filter											
	Oil Mist Filter											
	Long-life Filter		•	•	•	Opt	Opt					
	Filter Check Signal		•	•	•	•	•	Opt	Opt	Opt	Opt	
Air	Horizontal Vane							•	•	•	•	
Distribution	Vertical Vane											
	High Ceiling Mode											
	Low Ceiling Mode											
	Auto Fan Speed Mode		•	•	•	•	•	•	•	•	•	
Convenience			•	•	•	•	•	•	•	•	•	
	Auto Changeover		•	•	•	•	•	•	•	•	•	
	Auto Changeover		-					-	-			
			•	•	•	•	•	•	•	•	•	
	Low-temperature Cooling		•	•	•	•	•	•	•	•	•	
tions	Low-noise Operation (Ou	,	•	•		•	•	•	•	•	•	
Functions	Ampere Limit Adjustment		60-140V					71-140V		60-140V		
-	Operation Lock											
	Rotation, Back-up and 2nd	Stage Cut-in Functions	•	•		•	•	•	•	•	•	
	Dual Set Point *1		•	•		•	•	•	•	•	٠	
System Control	PAR-41MAA Control *2		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
CONTROL	PAR-CT01MAA Control *2	2	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	PAC-YT52CRA Control *2	2	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	Centraliesd On/Off Control	ol *2	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
			•	٠	Opt	٠	٠	Opt	Opt	Opt	Opt	
	System Group Control *2				Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	System Group Control *2 M-NET Connection *2		Opt	Opt	opt				1			
				Opt	opr	•	•	71-200	•	71-250	•	1
Installation	M-NET Connection *2		Opt			•	•	71-200	•	71-250	•	
Installation	M-NET Connection *2 COMPO Cleaning-free Pipe Reuse		Opt 71-250	•				•	•	•	•	
Installation	M-NET Connection *2 COMPO Cleaning-free Pipe Reuse Reuse of Existing Wiring	2	Opt 71-250	•								
Installation	M-NET Connection *2 COMPO Cleaning-free Pipe Reuse Reuse of Existing Wiring Wiring/Piping Correction	2	Opt 71-250 Opt	Opt	•	•	•	Opt	Opt	Opt	Opt	
Installation	M-NET Connection *2 COMPO Cleaning-free Pipe Reuse Reuse of Existing Wiring Wiring/Piping Correction Drain Pump	2	Opt 71-250 Opt 0pt	Opt		Opt	Opt	Opt Opt	Opt Opt	Opt Opt	Opt Opt	
Installation	M-NET Connection *2 COMPO Cleaning-free Pipe Reuse Reuse of Existing Wiring Wiring/Piping Correction Drain Pump Pump Down Switch	2	Opt 71-250 Opt •*3 •	Opt **3	•	Opt	Opt	Opt Opt	Opt Opt	Opt Opt	Opt Opt	
	M-NET Connection *2 COMPO Cleaning-free Pipe Reuse Reuse of Existing Wiring Wiring/Piping Correction Drain Pump Pump Down Switch Flare Connection	Function	Opt 71-250 Opt ••• ••• •••	Opt **3 •	•	Opt •	Opt •	Opt Opt Opt	Opt Opt Opt	Opt Opt	Opt Opt	
Installation	M-NET Connection *2 COMPO Cleaning-free Pipe Reuse Reuse of Existing Wiring Wiring/Piping Correction Drain Pump Pump Down Switch Flare Connection	Function	Opt 71-250 Opt •*3 •	Opt **3	•	Opt	Opt	Opt Opt	Opt Opt	Opt Opt	Opt Opt	

"1 This function is only available with PAR-41MAA, PAC-YT52CRA, PAR-SL101A-E. "2 Please refer to "System Control" on pages for details. "3 PEAD-M JAL are not equipped with a drain pump.

				P SERIES			
	PCA-M3	5/50/60/71/100/12	5/140KA2	PCA-M71HA2	PS	A-M71/100/125/140)KA
	PUZ-ZM	PUZ-M	SUZ-M	PUZ-ZM	PUZ-ZM	PUZ-M	SUZ-M
_							
	٠	•		٠			
	•	•		•	•	•	
	•	•		•	•	•	
	•	•	•	•	•	•	•
	•	•		•	•	•	
	•	•		•	•	•	
	•	•		•	•	•	
	•	•		•	•	•	
	•	•	•	•	•	•	•
	35-71	100	•	71	71	100	•
	•	•		•	•	•	
	35-71	100-140	•	71	71	100-140	٠
	100-250	200/250		100-250	200-250	200/250	
	35-71	100	٠	71	71	100	٠
	٠	•	•	٠	٠	٠	•
	٠	•		٠	٠	•	
	35-140	100-140V	•	71-140	71-140	100-140V	•
	35-250	100-250		71-250	71-250	100-250	
	٠	•	•	٠	•	٠	•
	Opt	Opt		Opt	Opt	Opt	
	•	•	•		•	•	•
	•	•	•				
	•	•	•	•			
	Opt	Opt	Opt				
		-		•			
	•	•	•		•	•	•
	•	•	•	•	•	•	•
	•	•	•				
	•	•	•		•	•	•
	•	•	•				
	•	•	•		•	•	•
	•	•	•	•	•	•	•
	•	•	•	•	•	•	•
	•	•	•	•	•	•	•
	•	•	•	•	•	•	•
	•	•		•	•	•	
	60-140V				71-140V		
	•	•		٠	•	•	•
	•	•					
	Opt	Opt	Opt	Opt	•	•	•
	Opt	Opt	Opt	Opt			
	Opt	Opt	Opt	Opt			
	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	•	•	Opt	•	Opt	Opt	Opt
	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	71-250	•		71-250	71-250		-
	•	•	•	•	•	•	•
	Opt	Opt		Opt	Opt	Opt	
	Opt	Opt	Opt				
		•		•			
	•						
	•	•	•	•	•	•	•

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

FUNCTION LIST (4)

Category	Icon					MXZ	SERIES					PXZ :	SERIES
	Series	Lo	-std		Std			Std		Hyper H	leating	PXZ	Z-VG
			Z-VF2		MXZ-VF4			MXZ-VF2		MXZ-\	/FHZ2	PXZ	Z-VG
	Outdoor u	unit 2HA	3HA	2F	3F	4F	4F	5F	6F	2F	4F	4F75	5F85
Technology	DC Inverter	•	•	•	•	•	•	٠	٠	•	•	•	•
	Joiint Lap DC Motor	•	•	•	•	•	•	•		٠		•	•
	Magnetic Flux Vector Sine Way	ve Drive											
	Reluctance DC Rotary Comper											•	•
	Highly Efficient DC Scroll Com												
	Heating Caulking (Compressor		•	•	•	•	•	•	•	•	•	•	•
	DC Fan Motor	•	•	•	•	•	•	•	•	•	•	•	•
	Vector-Wave Eco Inverter			-	-						-		
	PAM (Pulse Amplitude Modulat	tion)	•	•	•	•	•	•	•	•		•	•
				•	_		•	•	•	•	•	•	•
	Power Receiver and Twin LEV		•		•	•							
	Grooved Piping	•	•	•	•	•	•	•	•	•	•	•	•
i-see Sensor		see)											
	AREA Temperature Monitor												
Energy Saving	Demand Function												
Attractive	Pure White												
	Auto Vane												
Air Quality	Fresh-air Intake												
	High-efficiency Filter												
	Oil Mist Filter												
	Filter Check Signal												
Air	Horizontal Vane												
Distribution	Vertical vane												
	High Ceiling Mode												
	Auto Fan Speed Mode												
Convenience													
	Auto Changeover		•	•	•	•	•	•	•	•	•	•	•
		•			-	-		_	-	-		-	-
	Auto Restart	•	•	•	•	•	•	•	•	•	•	•	•
	Low- temperature Cooling	•	•	•	•	•	•	•	•	•	•	•	•
	10°C Heating			•*1	•*1	•*1	•*1	•*1	•*1	•*1	•*1	•	•
	Low-noise Operation (Outdoor))	•	•	•	•	•	•	•	•	•	•	•
	Night Mode												
(0)	Ampere Linit Adjustment											•	•
tions	Operation Lock (Indoor)												
Functions	Operation Lock (Outdoor)	•	•	•	•	•	•	٠	•	•	•	•	•
	Built-in Weekly Timer Function												
	Rotation, Back-up abd 2nd Stage 0	Cut-in Functions											
	Dual Set Point												
System	PAR-41MAA Control	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
Control	PAR-CT01MAA Cotrol	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	PAC-YT52CRA Control	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	Centralised On/off Control	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	System Group Control			Opt	Opt	Opt		Opt	Opt	Opt			
	M-NET Connection	Opt	Opt	Opt	Opt	Ορι	Opt	Opt	ομι	Opt	Opt	Opt	Opt
	Wi-Fi Interface											Opt	Opt
												Opt	Opt
	Energy/Consumption Monitaring tro	ourn MEL GIOUD										Opt	Opt
	СОМРО											Opt	Opt
	MXZ Connection	•*2	•*2	•*2	•*2	•*2	•*2	•*2	•*2	•*2	•*2	•	•
Installation	Cleaning-free Pipe Reuse	•*3	•*3	•*3	●*3	●*3	●*3	●*3	●*3	•*3	●*3		
	Reuse of Existing Wiring												
	Wiring/Piping Correction Funct	ion 🔹	•	•	•	•	•	•	•	•	•	•	•
	Drain Pump												
	Pump Down Switch		•		•	•							
	Flare Connection	•	•	•	•	•						•	٠
Maintenance	Self-Diagnosis Function (Check Co	ode Display)	•	•	•	•						•	•
	Failure Recall Function	•	•	•	•	•						•	•

*1 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible. *2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 116 for details. *3 Please refer to "System Control" on pages for details.

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

Major Optional Parts

Part Name	Description	Part Name	Description
Plasma Quad Connect High performance air purifying device that effectively removes various kinds of air pollut- ants and is even installable on the existing indoor unit.	Plasma Quad Connect	Multi-functional Casement Casement for fresh-air intake and attaching the high-efficiency filter element (optional).	Indoor unit body Multi-functional casement
Deodorising Filter Captures small foul-smelling substances in the air.	Decodorsing liter	Fresh-air Intake Duct Flange Flange attachment for adding a duct to take in fresh air from outside.	"For 4-way cassette units (PLA)
Air-cleaning Filter Removes fine dust particles from the air by means of static electricity.	Air-cleaning filter	Space Panel Decorative cover for the installation when the ceiling height is low.	Space Panel
V Blocking Filter Inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen.	V Blocking Filter	Drain Pump Pumps drain water to a point higher than that where the unit is installed.	"for ceiling-suspended units
Silver-ionized Air Purifier Filter Captures the bacteria, pollen and other aller- gens in the air and neutralises them.	Silver-ionized Air Punfier Filter	Decorative Cover To be attached to the upper section of ceiling- suspended models for professional kitchen use. Helps prevent dust accumulation.	Decorative cover
Oil Mist Filter Element Filter element (12 pieces) that blocks the oil mist for ceiling-suspended models used in professional kitchens.	Filter frame Filter element	MA Interface Interface for connecting with the PAR-41MAA remote controller and PAC-YT52CRA.	MA & contact terminal interface
High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air.	*For 4-way cassette units (PLA)	System Control Interface Interface to connect with M-NET controllers.	System control interface
3D i-see Sensor Corner Panel for SLZ Corner panel holding the 3D i-see Sensor.	i-see Sensor correr panel	Wi-Fi Interface Interface enabling users to control air condi- tioners and check operating status via devices such as personal computers, tablets and smartphones.	WiFi interface
3D Total Flow for PLA Casement equipped with horizontal louver.		Connector Cable This product is an adaptor which inputs the incoming signals from an open/close switch to the air conditioner and outputs the on/off signals from the air conditioner.	Switch
3D i-see Sensor Corner Panel for PLA Corner panel holding the 3D i-see Sensor.	I-see Sensor correr parel	Power Supply Terminal Kit Terminal bed to change the power supply from outdoor power supply to separate indoor/ outdoor power supplies.	
Shutter Plate Plate for blocking an air outlet of the 4-way cassette (PLA) indoor unit.	Shutter Plate	Wired Remote Controller Advanced deluxe remote controller with full- dot liquid-crystal display and backlight. Equipped with convenient functions like night- setback.	

Part Name	Description	Part Name	Description
MA Touch Remote Controller Remote controller with the full color touch display. Smartphone/Tublet App is available for setting, customize and control.		Joint Pipe Part for connecting refrigerant pipes of differ- ent diametres.	Indoor unit
Simple Wired Remote Controller Remote controller with liquid-crystal display, and backlight function for operation in dark location.		Liquid Refrigerant Dryer Removes water and minute particles from refrigerant pipes.	
Remote Controller Terminal Block Kit for PKA The terminal block is used as a relay to wire an indoor unit and to two remote controllers or to wire a remote controller and multiple indoor units in order to perform group control.		Branch Box Outer Cover Casement for branch boxes.	Complete view
Wireless Remote Controller Signal Sender Handheld unit for sending operation signals to the indoor unit.	Handheld unit	Air Discharge Guide Changes the direction of air being exhausted from the outdoor unit.	
Wireless Remote Controller Signal Receiver Receives operation signals from the wireless remote controller handheld unit.	Signal receiver	Air Protection Guide Protects the outdoor unit from the wind.	
Wireless Remote Controller Kit (Sender & Receiver) Remote controller handheld unit (signal sender) and receiver (signal receiver) for ceiling- suspended units.	Signal receiver Signal sender	Drain Socket A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe.	Cap Socket
Control Holder Holder for storing the remote controller.	Control holder	Centralised Drain Pan Catches drain water generated by the outdoor unit.	Outdoor unit Centralised drain pan Base (local construction)
Remote Sensor Sensor to detect the room temperature at remote positions.	Remote sensor	M-NET Converter Used to connect P Series A-control models to M-NET controllers.	Group namedie controller Converter Poer assay volt Poer assay volt
Remote On/Off Adapter Connector for receiving signals from the local system to control the on/off function.	Remote on/off adapter	Control/Service Tool Monitoring tool to display operation and self- diagnosis data.	Control/service tool
Remote Operation Adapter Adapter to display the operation status and control on/off function from a distance.	Remote operation adapter	Step Interface Interface for adjusting the capacity of inverter- equipped outdoor units.	Case interior
Connector Cable for Remote Display Connector used to display the operation status and control on/off function from a distance.	Connector cable for remote display T T T T T Connector cable for remote display Red Orange Vellow Green	High-static Fan Motor Static pressure enhanced up to +30pa.	
Distribution Pipe Branch pipe for P Series simultaneous multi- system use, or to connect two branch boxes for PUMY.	Indoor unit Indoor unit Distribution pipe Verles with 2 indoor units		

Optional Parts List <Indoor>

	Option		Silver-	ionized			Filter			Deod	orising	Plasma	Softdry	System Control	MA	Wi-Fi	Con	nector	
		MAG	Air Purif	fier Filter				ing Filter		Fil	Iter	Quad Connect	Cloth	Interface	Interface	Interface		able	
Indoor Unit		MAC- 2360 FT	MAC- 2370 FT	MAC- 2380 FT	MAC- 2390 FT	MAC- 2450 FT	MAC- 2460 FT	MAC- 2470 FT	MAC- 2490 FT	MAC- 3000 FT-E	MAC- 3010 FT-E	MAC- 100 FT-E	MAC- 1001 CL-E	MAC- 334 IF-E	MAC- 497 IF-E	MAC- 587 IF-E	MAC- 1702 RA-E	MAC- 1710 RA-E	
Wall - mounted	MSZ-RW25VG								•		•			•	•		•	•	_
mounted	MSZ-RW35VG MSZ-RW50VG								•					•	•		•	•	
	MSZ-LN18VG2(W)(V)(R)(B)								•		•		•	•	•		•	•	
	MSZ-LN25VG2(W)(V)(R)(B)								•		•		•	•	•		•	•	
	MSZ-LN35VG2(W)(V)(R)(B)								•		•		•	•	•		•	•	
	MSZ-LN50VG2(W)(V)(R)(B)								•		•		•	•	•		٠	٠	
	MSZ-LN60VG2(W)(V)(R)(B)								•		•		•	•			•	•	
	MSZ-FT25VG															•*3			
	MSZ-FT35VG							•				•		•	•	•*3	•	•	-
	MSZ-FT50VG							•1				•		•	•	•3	•	•	
	MSZ-AY15VGK(P) MSZ-AY20VGK(P)							•1				• 2		•	•	• 3	•	•	
	MSZ-AY25VGK(P)							•1				• 2		•	•	•*3	•	•	-
	MSZ-AY35VGK(P)							•1				•*2		•	•	• 3	•	•	
	MSZ-AY42VGK(P)							•1				•*2		•	•	•*3	•	•	
	MSZ-AY50VGK(P)							•1				•*2		•	٠	•'3		٠	
	MSZ-AP60VG						•					•			•	•*3			
	MSZ-AP71VG						•					•	-	•	•	•*3	•	•	-
	MSZ-EF18VG(W)(B)(S) MSZ-EF22VG(W)(B)(S)							•				•	•	•	•	•3	•	•	
	MSZ-EF22VG(W)(B)(S) MSZ-EF25VG(W)(B)(S)							•				•	•	•	•	• 3	•	•	
	MSZ-EF35VG(W)(B)(S)			1				•				•	•	•	•	• 3	•	•	+
	MSZ-EF42VG(W)(B)(S)							•				•	•	•	•	•.3	•	•	
	MSZ-EF50VG(W)(B)(S)							٠				•	٠	٠	٠	•*3	٠	٠	
	MSZ-BT20VG							•				•		•	•	•.3	•	•	
	MSZ-BT25VG											•			•	•*3			
	MSZ-BT35VG							•				•		•	•	•*3	•	•	
	MSZ-BT50VG MSZ-HR25VF							•				•		•	•	•3	•	•	
	MSZ-HR35VF							•				•		•	•	• 3	•	•	
	MSZ-HR42VF				1			•				•		•	•	•*3	•	•	1
	MSZ-HR50VF							•						•	•	•*3		٠	
	MSZ-HR60VF							٠				٠		٠	•	•*3		٠	
ES	MSZ-HR71VF							•				•		•	•	•.3	•	•	
SERIES	MSZ-DW25VF							•				•		•	•	•3	•	•	
S	MSZ-DW35VF MSZ-DW50VF							•				•		•	•	• 3	•	•	-
	MSY-TP35VF							•				•		•	•	• 3	•	•	
	MSY-TP50VF							•				•		•	•	•*3	•	•	
	MSZ-FH25VE2			٠						٠				•	•	•*3	•	•	
	MSZ-FH35VE2															•*3			
	MSZ-FH50VE2			٠					-	٠		-		•	•	•*3	•	٠	-
	MSZ-SF15VA											•		•	•	•*3			
	MSZ-SF20VA MSZ-SF25VE3		•									•		•	•	•*3			
	MSZ-SF25VE3 MSZ-SF35VE3		•									•		•	•	• 3			+
	MSZ-SF42VE3		•									•		•	•	• 3			
	MSZ-SF50VE3		•									•		•		•*3			
	MSZ-GF60VE2	•					٠					٠		٠	٠	•*3			
	MSZ-GF71VE2		-									•		•	•	•*3	-		
	MSZ-WN25VA		•									•		•	•	•*3	•	•	-
	MSZ-WN35VA MSZ-DM25VA		•									•		•	•	•3	•	•	
	MSZ-DM25VA MSZ-DM35VA		•									•		•	•	• 3	•	•	
	MSZ-HJ25VA		•	1											-		•	•	
	MSZ-HJ35VA		•														•	•	
	MSZ-HJ50VA		•														•	•	
	MSZ-HJ60VA		٠														٠	٠	
	MSZ-HJ71VA		•					-							-		•	•	
Floor - standing	MFZ-KT25VG MFZ-KT35VG		•		-			•						•	•	•3	•	•	-
	MFZ-KT50VG		•					•						•	•	• 3	•	•	
	MFZ-KT60VG		•					•						•	•	• 3	•	•	
	MFZ-KW25VG		•					•						•	•	•*3	•	•	
	MFZ-KW35VG															•*3			
	MFZ-KW50VG		•					•						•	•	• '3	•	•	-
	MFZ-KW60VG		•					•						•	•	• '3	•	•	
1-way	MLZ-KP25VF		•					•						•	•	•*3	•	•	
	MI 7-KP35VE				1	1	1			1	1	1	1	-	-		-		1
cassette	MLZ-KP35VF MLZ-KP50VF		•					•						•	•	•"3	•		

11 Equipped as standard for VGK model.
 12 Plasma quad plus is equipped as standard for VGKP model.
 13 Outside attachment only.
 14 Either MAC-334IF-E or MAC-497IF-E is required. Up to two wired remote controllers can be connected at the same time.
 15 Either MAC-334IF-E or MAC-497IF-E is required. Only one wired remote controller can be connected.
 16 Available only for LN18/25/35/50/60VG2B/R/V.
 17 Available only for LN18/25/35/50/60VG2W.

	Wired R	emote Co	ntroller	Wireless Remote Controller	Cor	ntroller Hol	lder
	PAR- 41MAA	PAR- CT01 MAA	PAC- YT52 CRA	MAC- SL100 M-E	MAC- 286 RH-E	MAC- 1200 RC-E	MAC- 1300 RC-E
	•*4	•*5	•*4				
	•*4	•*5	•*4				
	•*4	•*5	•*4				
	•*4	•*5	•*4		•*6		•*7
	•4	•*5	•*4		•*6		• 7
	•*4	•*5	•*4		•*6		• 7
	• 4	•*5	• 4		•*6		• 7
	•*4 •*4	•*3	• 4		•*6		••7
	• 4	•*5	•4				•
	• 4	•*5	• 4				•
	• 4	•*5	•*4				•
	• 4	•*5	•*4				•
	• 4	•*5	• 4				•
	• 4	•*5	•*4				
	• 4	•*5	•*4				•
	• 4	•*5	• 4				•
	•*4	•*5	•*4				•
	•*4	•*5	•*4				•
	•*4	•*5	•*4				
	•*4	•*5	•*4				
	•*4	•*5	•*4				•
	•*4	•*5	•*4				•
	•*4	*5	•*4				
	•*4	•*5	•*4				•
	•*4	•*5	• 4				
	• 4	•*5	•*4				
	•*4	•*5 •*5	• 4				
	• 4	•*5	• 4				
	• 4	•*5	• 4			•	
	• 4	• 5	• 4			•	<u> </u>
	• 4	•*5	• 4			•	
	• 4	•*5	•*4			•	
	• 4	•*5	• 4			•	
	•*4	•*5	• 4			•	
	•*4	•*5	• *4			•	
	•4	•*5	• 4			•	
	•*4	•*5	•*4				
	•*4	•*5	•*4				
	•*4	•*5	•*4				•
	•*4	•*5	•*4				
	•*4	•*5	•*4				•
	•*4	•*5	•*4				٠
	•4	•*5	•*4				
	•*4	•*5	•*4				•
_	•*4	•*5	• 4				•
	•*4	*5	•*4				•
	•*4	•*5	• 4				•
	• 4	•*5	• 4				
	• 4	•*5	•4				•
	• 4	•*5	• 4				•
	•*4	•*5	•*4				
	• 4	•*5	•*4			•	
						•	
						•	
						•	
						•	
	•*4	•*5	•*4				
	•*4	•*5	•*4				•
	•*4	•*5	•*4				
	•4	•*5	• 4				•
	•*4	•*5	• 4				•
	•*4	•*5	•4				•
	•*4	•*5	•*4				•
	•*4	•*5	• 4				•
	•*4	•*5 •*5	•*4				•
	•*4 •*4	• 5	• 4				•
	•4	• 5	• 4				•

Optional Parts List <Indoor>

~		Option									Fi	ilter									[
		<u> </u>	Oil Mist Filter Element	Life		ligh-effici Elen	ciency Filt	lter			V BI	Blocking F	Filter					Filter Bo	хс		
.,	· • • • - • 4		PAC- SG38 KF-E	- PAC- 3 KE85	- PAC- 5 SH59	9 SH88	3 SH89	SH90	SK53	SK54	PAC- SK55 KF-E	SK56	SK57	2470	1416	KE92	PAC- KE93 TB-E	3 KE94	KE95	KE250	
_	door Unit 4-way	SLZ-M15FA2						<u> </u> '			<u> </u>	+		+	+'	+	+				i
	cassette	SLZ-M15FA2							+'					-	<u> </u>					\vdash	
		SLZ-M35FA2	-		-											-	-	-			
		SLZ-M50FA2						\square	\square					\square		\square					
		SLZ-M60FA2						-	-	•					-	-					
	Ceiling -	SEZ-M25DA(L)2																			
0	conceald	SEZ-M35DA(L)2				-		-	-			—	—		-	-	-				
		SEZ-M50DA(L)2																			
0		SEZ-M60DA(L)2				1	· · ·	_					· · ·	<u> </u>	<u> </u>						
		SEZ-M71DA(L)2																		/	
	Concealed floor standing	SFZ-M25VA							<u> </u>		<u> </u>		<u> </u>	'	<u> </u>					· '	1
	100r Standing	SFZ-M35VA																			
		SFZ-M50VA				'	'	'	'	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	'	· '				<u> </u>	Ē
		SFZ-M60VA																			
		SFZ-M71VA				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	Ĺ	<u> </u>	<u> </u>	Ē.			<u> </u>	Ē
	4-way cassette	PLA-ZM35EA2																			
	54555	PLA-ZM50EA2			•	<u> </u>	<u> </u>	<u> </u>	•	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>				<u>ب</u>	L
		PLA-ZM60EA2																			
		PLA-ZM71EA2			•	<u> </u>	<u> </u>	<u> </u>	•	<u> </u>	 '	 '	<u> </u>	<u> </u>	<u> </u>		1			<u> </u>	L
		PLA-ZM100EA2		4		4				4		-	 '	4'		4	4	4			
		PLA-ZM125EA2	-		•	'	'	<u> </u> '	•	<u> </u>	<u> </u>			<u> </u>			\vdash			<u> </u>	l
		PLA-ZM140EA2											 '	4'			4	4			
		PLA-M35EA2	<u> </u>			<u> </u>	'	<u> </u>	•	<u> </u>				<u> </u> '		-	\square			<u> </u>	1
		PLA-M50EA2				-						-		'		-	1				1
		PLA-M60EA2			•	ľ	-	<u> </u>	•	\square		-								\square	
		PLA-M71EA2			•																
		PLA-M100EA2				-	-	<u> </u>	•	\square		-		<u> </u>						\vdash	
		PLA-M125EA2 PLA-M140EA2					-	-				-	-	-	-	-					
ł	Ceiling - P	PLA-M140EA2 PEAD-M35JA(L)2	-	\leftarrow		-	-	-	•	-	-	\square	\vdash	\vdash	-	-				\vdash	
		PEAD-M35JA(L)2 PEAD-M50JA(L)2					-	-	-			-	-		-						
		PEAD-M50JA(L)2 PEAD-M60JA(L)2				+	\leftarrow	\vdash	\vdash	\vdash			\vdash	\vdash	\vdash					\vdash	1
		PEAD-M60JA(L)2 PEAD-M71JA(L)2						-	-	-		-	-			-					
		PEAD-M71JA(L)2 PEAD-M100JA(L)2				+	\vdash	+'	+				\vdash	\vdash	-	\vdash				\vdash	1
ES		PEAD-M100JA(L)2 PEAD-M125JA(L)2				-	-	-	-			-	-	-	-	-	-				1
P SERIES		PEAD-M125JA(L)2 PEAD-M140JA(L)2				+	\leftarrow	\vdash	\vdash	\vdash			\vdash	\vdash	\vdash	+				\vdash	1
		PEAD-M140JA(L)2 PEA-M200LA2					-	-	-			-	-	-	-	-	1				1
		PEA-M200LA2 PEA-M250LA2					\leftarrow	\vdash	\leftarrow				\square	\square	\leftarrow	+					1
	Wall -	PEA-M250LA2 PKA-M35LA(L)2						-				-	-		-	-					
	mounted	PKA-M35LA(L)2 PKA-M50LA(L)2					-	+	\vdash						-	-				\vdash	
		PKA-M50LA(L)2 PKA-M60KA(L)2	-	-	-	-	-	-	-			-	-			-	-	-	-		
		PKA-M00KA(L)2						\vdash	\vdash	\vdash			\square	\square		t_				\vdash	
		PKA-M71KA(L)2 PKA-M100KA(L)2																			-
	Ceiling -	PCA-M35KA2						\vdash	\vdash	+					H	\leftarrow				\vdash	
	suspended	PCA-M35KA2 PCA-M50KA2								-			-								
		PCA-M50KA2 PCA-M60KA2						\leftarrow	\leftarrow						\square	\leftarrow				\leftarrow	1
		PCA-M60KA2 PCA-M71KA2						-	-	+	—	•		-	-	-	-				
		PCA-M7TKA2 PCA-M100KA2					H		\vdash					\square	\square	\vdash				\mapsto	1
		PCA-M100KA2 PCA-M125KA2				-			-	+		-		-	-	-	1				1
		PCA-M123KA2 PCA-M140KA2							\vdash						\square	\vdash				\vdash	
		PCA-M71HA2							-						-		1				
	Floor -	PSA-M71KA	F																	\vdash	
	standing	PSA-M100KA					-	-		-			-		-						
		PSA-M125KA																			
		PSA-M140KA						-		-	,,			-						-	
Mult 2 Plas Mult 3 Insu 3 Nut 24 V Bl 5 V Bl	ulti functional casem asma Quad Connect ulti functional casem sulation kit(PAC-SK3 nutter Plate(PAC-SJ3 Blocking Filter(PAC- Blocking Filter(PAC-	PSA-M125KA	High-effici- be used wir High-effici- with 3D Tota casement(F ed with Hig ed with Hig	ciency filte with PLP-L ciency filte otal Flow u t(PAC-SJ4 igh-efficien igh-efficien	Iter elemen -U160ELR Iter elemen unit(PLP-I I41TM-E) a iency filter iency filter	ent(PAC-SH R-E(3D Tot ent(PAC-SH P-U160ELR and High- er element(I er element(I	SH59KF-Ej otal Flow u SH59KF-Ej _R-E), Plas h-efficiency tt(PAC-SH5 tt(PAC-SH5	E) v unit), Insu E). asma Quad cy filter ele 159KF-E). 188KF-E).	sulation kit ad Connec element(PA).	kit (PAC-SK	K36HK-E)	E), Auto el	elevation p	n panel(PLF	LP-6EAJ, F						

 Plasma Quad Cor								nect									1	,
					Plasma	a Quad C	onnect						Ser	-see isor	3D Total	Shutter	Insulation	Multi- functional
		a Quad C	onnect		Attach	ment for I	Ducted		Во	x for Duc	ted		Co	rner nel	Flow unit	Plate	kit	Casement
MAC- 100 FT-E	PAC- SK51 FT-E	SLP- FAP	SLP- FALP	SLP- FALMP2	PAC- HA11 PAR	PAC- HA31 PAR	PAC- HA31 PAU	PAC- KE91 PTB-E	PAC- KE92 PTB-E	PAC- KE93 PTB-E	PAC- KE94 PTB-E	PAC- KE95 PTB-E	PAC- SF1 ME-E	PAC- SE1 ME-E	*1 PLP- U160 ELR-E	PAC- ^{*8} SJ37 SP-E	PAC- ^{*3} SK36 HK-E	PAC- SJ41 TM-E
			•	•									•					
		•	•	•									•					
			-															
																	•	
	•															•	•	•
	•													•	•	•	•	•
	•																	
	•																	
							•											
 •						•	•		•									
 •						•	•											
•																		
•																		
							UL OD T						HOAC-SK					

*10 High-efficiency filter element(PAC-SH59KF-E) cannot be used with 3D Total Flow unit(PLP-U160ELR-E), Plasma Quad Connect(PAC-SK51FT-E), Insulation kit (PAC-SK36HK-E) and V Blocking Filter(PAC-SK53KF-E).
 *11 High-efficiency filter element(PAC-SH88KF-E) cannot be used with V Blocking Filter(PAC-SH88KF-E).
 *12 High-efficiency filter element(PAC-SH98KF-E) cannot be used with V Blocking Filter(PAC-SH88KF-E).
 *13 High-efficiency filter element(PAC-SH98KF-E) cannot be used with V Blocking Filter(PAC-SH88KF-E).

Optional Parts List <Indoor>

		Option	Fresh-a Du	ir Intake uct nge	Space Panel				Drain Pum	p			Decorative Cover	System Control Interface	Wi-Fi Interface	
Inc	door Unit		PAC- SH65 OF-E	PAC- SF28 OF-E	PAC- SJ65 AS-E	PAC- SK19 DM-E	PAC- SK01 DM-E	PAC- SJ92 DM-E	PAC- SJ93 DM-E	PAC- SJ94 DM-E	PAC- KE07 DM-E	PAC- KE06 DM-FI	PAC- SF81 KC-E	MAC- 334 IF-E	MAC- 587 IF-E	
	4-way cassette	SLZ-M15FA2														
	0000010	SLZ-M25FA2														
		SLZ-M35FA2														
		SLZ-M50FA2														
		SLZ-M60FA2														
	Ceiling -	SEZ-M25DA(L)2														
S	conceald	SEZ-M35DA(L)2														
SERIES		SEZ-M50DA(L)2														
S		SEZ-M60DA(L)2														
		SEZ-M71DA(L)2														
	Concealed	SFZ-M25VA														
	floor standing	SFZ-M35VA														
		SFZ-M50VA														
		SFZ-M60VA												•		
		SFZ-M71VA												•	•	
	4-way	PLA-ZM35EA2												•"1		
	cassette	PLA-ZM50EA2	•		•									•"1	•	
		PLA-ZM60EA2	•											•"1		
		PLA-ZM71EA2	•		•									•*1	•	
		PLA-ZM100EA2	•		•									•"1		
		PLA-ZM125EA2	•		•									•"1	•	
		PLA-ZM140EA2	•		•									•"1	•	
		PLA-M35EA2	•		•									•*1	•	
		PLA-M35EA2 PLA-M50EA2	•		•									•"1	•	
														•1		
		PLA-M60EA2	•		•									•1	•	
		PLA-M71EA2												•1		
		PLA-M100EA2														
		PLA-M125EA2														
	Ceiling -	PLA-M140EA2												•"1		
	conceald	PEAD-M35JA(L)2												•"		
		PEAD-M50JA(L)2												•*1		
		PEAD-M60JA(L)2												•"1		
		PEAD-M71JA(L)2												•"		
S		PEAD-M100JA(L)2												•*1		
P SERIES		PEAD-M125JA(L)2												•*1		
P SI		PEAD-M140JA(L)2												•*1		
		PEA-M200LA2												•1	•	
		PEA-M250LA2												•*1		
	Wall - mounted	PKA-M35LA(L)2												•"		
		PKA-M50LA(L)2												•*1		
		PKA-M60KA(L)2												•*1		
		PKA-M71KA(L)2												•"1		
		PKA-M100KA(L)2												•"1		
	Ceiling -	PCA-M35KA2												•*1		
	suspended	PCA-M50KA2												•1		
		PCA-M60KA2												•"1		
		PCA-M71KA2												•1		
		PCA-M100KA2														
		PCA-M125KA2														
		PCA-M140KA2														
		PCA-M71HA2														
	Floor -	PSA-M71KA		-												
	standing	PSA-M100KA														
		PSA-M125KA														
		PSA-M140KA													•	
		a used in combination with SLIZ		L	L	L	L	L		L	l	<u> </u>	L	<u> </u>		

*1 P Series indoor units can be used in combination with SUZ or MXZ outdoor units. *2 Unable to use with wireless remote controller. *3 PAC-SH29TC-E is required for wireless model.

					Wi	red Remo	te Contro	ller		Wire	less Rem	note Cont	roller					
	Dama							Terminal						Controller	Remote	Remote	1	Connector Cable for
	Power S	Supply Ter	minai kit			Controller		Block kit for PKA	Signal	Sender	Sig	ınal Recei	ver	Kit (Sender & Receiver)	Sensor	On/Off Adapter	1 ·	Remote Display
PAC-	PAC-	PAC-	PAC-	PAC-	PAR-	PAR-	PAC-	PAC-	PAR-	PAR-	PAR-	PAR-	PAR-	PAR-	PAC-	PAC-	PAC-	PAC-
SK38	SG94	SG96	SG97	SJ39	41	CT01	YT52	SH29	SL97	SL101	SA9	SF9	SE9	SL94	SE41	SE55	SF40	SA88
HR-E	HR-E	HR-E	HR-E	HR-E	MAA	MAA	CRA	TC-E	A-E	A-E	CA-E	FA	FA-E	B-E	TS-E	RA-E	RM-E	HA-E
									•	•*4							•*2	•
							•										-	
							•			•*4							•*2	•
										•*4							•*2	
										•*4							•*2	
					DA2	DA2	DA2			•*4							•*2	
					DA2	DA2	DA2			•*4							•*2	
					DA2	DA2	DA2			•*4							•*2	
					DA2	DA2	DA2			•*4							•*2	
					DA2	DA2	DA2			•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4					•		•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
										•*4							•*2	
					•*3	•*3	•*3			•*4							•*2	
					•*3	•*3	•*3			•*4							•*2	
					•*3	•*3	• "3			•*4								
					•*3	•*3	•*3			•*4								
					•*3	•*3	•*3			•*4								
								_		•*4							*2	
										•*4							•*2	
						•				•*4							•*2	
										•*4							•*2	
										•*4							•*2	
		•			•	•	•		•	•*4	•			•	•	•	•*2	•
					•	•	•		•	•*4					•	•	•*2	•
					•	•	•		•	•*4	•				•	•	•*2	•
										•*4	•				•	•	•*2	
		•								• 4	•				•	•	•*2	
		•								• 4	•				•		•*2	•
		•								•*4	•				•	•	•*2	•
 *4 Group (control can	÷	l		<u> </u>		l	L	L									

Optional Parts List <Outdoor>

	Option			Distribut	tion Pipe			11.5			Joint					Liquid	Refrigera	ant Dryer	-
			Twin :50)		Triple (3:33)		adruple :25:25)	> Pipe	> Pipe	Unit ø15.88 > Pipe ø19.05	> Pipe	Unit ø6.35 > Pipe ø9.52	> Pipe	ø12.7 > Pipe	> Pipe	For Pipe ø6.35	For Pipe ø9.52		,
Dutdoor Unit		MSDD- 50TR-E	MSDD- 50WR-E	MSDT- 111R-E	MSDT- 111R3-E	MSDF- 111R-E	MSDF- 111R2-E	PAC-	PAC- SG73 RJ-E	PAC-	PAC- SG76 RJ-E	PAC- 493	Flare MAC-	MAC-		PAC- SG81		PAC- SG85	
								TIO-L	110-	TIU-L	RJ-E	PI	JP-E	JP-E	JP-E		DIFE		-
RW Series	MUZ-RW25VGHZ MUZ-RW35VGHZ																		+
	MUZ-RW50VGHZ																		+
L Series	MUZ-LN25VG2																		
	MUZ-LN25VGHZ2																		
	MUZ-LN35VG2																		
	MUZ-LN35VGHZ2																		
	MUZ-LN50VG2																		
	MUZ-LN50VGHZ2 MUZ-LN60VG2																		
FT Series	MUZ-FT25VGHZ																		+
T T Genes	MUZ-FT35VGHZ																		
	MUZ-FT50VGHZ																		
A Series	MUZ-AY15VG																		
	MUZ-AY20VG																		
	MUZ-AY25VG																		-
	MUZ-AY25VGH MUZ-AY35VG																		-
	MUZ-AY35VG MUZ-AY35VGH																		
	MUZ-AY42VG				1														1
	MUZ-AY42VGH																		
	MUZ-AY50VG																		
	MUZ-AY50VGH																		
	MUZ-AP60VG																		
E Sories	MUZ-AP71VG2 MUZ-EF25VG							-				1	-				-		+
E Series	MUZ-EF25VG																		+
	MUZ-EF35VG																		
	MUZ-EF35VGH																		
	MUZ-EF42VG																		
	MUZ-EF50VG																		
BT Series	MUZ-BT20VG																		
	MUZ-BT25VG MUZ-BT35VG																		
	MUZ-BT50VG																		+
HR Series	MUZ-HR25VF																		
≝	MUZ-HR35VF																		
	MUZ-HR42VF																		
Σ	MUZ-HR50VF																		
	MUZ-HR60VF																		_
DW Series	MUZ-HR71VF MUZ-DW25VF																		-
Dw Selles	MUZ-DW25VF MUZ-DW35VF																		-
	MUZ-DW50VF																		+
TP Series	MUY-TP35VF																		
	MUY-TP50VF																		
F Series	MUZ-FH25VE																		
	MUZ-FH25VEHZ																		
	MUZ-FH35VE MUZ-FH35VEHZ																		+
	MUZ-FH50VE																		
	MUZ-FH50VEHZ																		
S Series	MUZ-SF25VE																		Γ
	MUZ-SF25VEH																		
	MUZ-SF35VE																		+
	MUZ-SF35VEH MUZ-SF42VE																		
	MUZ-SF42VE MUZ-SF42VEH																		
	MUZ-SF50VE														<u> </u>				1
	MUZ-SF50VEH																		
G Series	MUZ-GF60VE																		
	MUZ-GF71VE																		
W Series	MUZ-WN25VA																		-
D Series	MUZ-WN35VA MUZ-DM25VA																		┢
Dioenes	MUZ-DM25VA MUZ-DM35VA																		
H Series	MUZ-HJ25VA																		T
	MUZ-HJ35VA													L					
	MUZ-HJ50VA																		
	MUZ-HJ60VA																		
	MUZ-HJ71VA																		
Compact floor	MUFZ-KW25VGHZ																		F
1001	MUFZ-KW35VGHZ MUFZ-KW50VGHZ																		┢
	MUFZ-KW50VGHZ MUFZ-KW60VGHZ																		-

			Air O	outlet G	àuide				Air Pro	tection	Guide	Dra	ain Soc	ket	р	Freeze- reventio Heater Drain P	n	Centra	lized Dra	ain Pan	M-NET Adapter	M-N Conv		Control/ Service Tool	Step Interface 1 PC board w/attach- ment kit	Insul fc Accun	ation or nulator	High Static Fan Motor
MAC- 890 SG-E	MAC- 881 SG		MAC- 856 SG	MAC- 886 SG-E	MAC- 883 SG	PAC- SJ07 SG-E	PAC- SG59 SG-E	PAC- SH96 SG-E	PAC- SJ06 AG-E	PAC- SH63 AG-E	PAC- SH95 AG-E	PAC- SJ08 DS-E	PAC- SG60 DS-E	PAC- SG61 DS-E	MAC- 643 BH-E	MAC- 644 BH-E	MAC- 646 BH-E	PAC- SG63 DP-E	PAC- SG64 DP-E	PAC- SH97 DP-E	PAC- IF01 MNT-E	PAC- SJ96 MA-E	PAC- SJ95 MA-E	PAC- SK52ST	PAC- IF012 B-E	MAC- 892 INS-E	MAC- 893 INS-E	PAC- SJ71 FM-E
		•																										
	•																											
	•																											
	•																											
•		•																										
	•																											
		•																								_		
					٠																							
	•																											
	•																											
	•																											
		•																										
		•																										
	•																											
	•																											
		•															•											
					•																							
					•																							
	•				-																							
					•																							
	•				•																							
	•																											
		•																										
					•																							
					٠																							
	•																											
	•																											
	•																											
	٠			6																								
				•																								
	٠			_																								
	•																											
	•																											
	•			•																								
				•																								
					•																							
					•																							
	•				•																							
				•																								
				•																								
	•																											
				٠																								
				•																								

Optional Parts List <Outdoor>

\searrow	Option	[—		Dis	tribut	ution Pi	ipe						Heade	ler (Joi	nt)	Unit				J	Joint I	Pipe							Liquid	Refrigera	ant Dryer	r -			1
				Twin):50)		For T (33:3	Triple 33:33)	Quad (25:25:	For druple 5:25:25)	of 2-l	In case of using -branc boxes	ng ich	Branch Pipe		ader	ø15.88 >	B Unit ø : Pipe ø			nit ø6.3 > ipe ø9.5			nit ø9.5 > pe ø12			ø12.7 -> ø9.52		>	pipe	pipe	For pipe 2 ø12.7		ir Outl Guide		
Outdoor Unit		MSDD- 50TR -E	MSDD- 50TR2 -E	MSDD- 50WR -E	MSDD- 50WR2 -E	D- MSDT- 1 12 111R -E	MSDT- 111R3 -E	MSDF- 1111R -E	MSDF- 1111R2 -E	Fla MSDD- 50AR-F	are MSDD- 50AR2-E	Brazing MSDD E 50BR-1	CMY- Y62- E G-E	CMY- Y64- G-E				PAC-I	PAC- 493	- PAC- F SG72 S RJ-E F	Fla PAC- SJ87	lare - MAC- 7 A454	PAC- SG73	PAC- SJ88	MAC- A455	PAC- SK88	MAC- A456	- PAC 3 SK8	- PAC- SG81 DR-E	PAC- SG82 DR-E	PAC- SG85 DR-E	- MAC- 5 890 SG-E	MAC- 881 SG	MAC- 882 SG	
SERIES	SUZ-M25VA						\square										hJ-c	hJ-c		hJ-C	<u></u>	JP-C	HJ-C	HJ-C	JP-C	hj-c	JP-L	nu-L	<u> </u>				•		Γ
32)	SUZ-M35VA																								٠								•		4
	SUZ-M50VA			\square	⊢'	\vdash	<u> </u>			\vdash	— '	<u> </u>	\vdash	<u> </u>	+-'	\vdash	<u> </u>	\vdash	 '	\vdash	'	\vdash	\vdash		+'	 '	+'	-	-					•	ł
	SUZ-M60VA SUZ-M71VA				-			-	-	-	—	-	-		-				P	\square		-		—		<u> </u>	P		-						P
Power	PUZ-ZM35VKA2	\square	\vdash	\vdash	\square	\vdash		\square	\vdash	\vdash		ť	\square			\vdash				\vdash	•	\vdash	\rightarrow			\square	F'					\square	-		t
Inverter (R32)	PUZ-ZM50VKA2				\square	-	-			-	<u> </u>	\square	-	-	-		—	-	\square	\square	•		$ \frown $	•	—	\square	\square		•						
(102)	PUZ-ZM60VHA2																													٠					47
	PUZ-ZM71VHA2		٠	\square	Ē			Ē'	Ĺ	Ĺ	<u> </u>	Ĺ	Ĺ	Ē	Ĺ	Ē	Ļ	Ē	<u> </u>	<u>آ</u>	<u> </u>	Ē	Ē	•	Ļ	Ĺ_'	Ĺ			٠					Ļ.
	PUZ-ZM100VKA2		•		-	\square	•	-	-	\square	-	-	\square		-	\square	-		-	\square		\square		•		-	-			•					F
	PUZ-ZM100YKA2 PUZ-ZM125VKA2		•	\square	\vdash	\vdash	•	\vdash		\square			\square		\vdash	\square				\vdash		\vdash	\square	•					+	•					t
	PUZ-ZM125YKA2		•	\square			•	-	•	-	_	F	\square	-		\vdash				\square		-	$ \neg $	•		P	F	-		•					Г
	PUZ-ZM140VKA2		•				•		•															•						•					ſ
	PUZ-ZM140YKA2		٠				٠		٠															٠						٠					Ĩ
	PUZ-ZM200YKA2			\square	٠		٠	\square'	٠	\square	\square	\square'	\square		4	\square			\square			\square				\square'				٠					Ĥ
	PUZ-ZM250YKA2			\square	•	\vdash	•	<u> </u>	•	<u> </u>	—	<u> </u>	<u> </u>	<u> </u>	+-'	\vdash	— ′	\vdash	-	\mapsto	'	\vdash	$ \longrightarrow $		-	<u> </u>	+-'	-	+		•		<u> </u>		ł
Standard Inverter	PUZ-M100VKA2 PUZ-M125VKA2		•		-	\square	<u> </u>	-	-	\square	-	F	\square		\square	\square	\square		P	\square	_	-			P	-	-	-	-	•	-		-		f
(R32)	PUZ-M125VKA2 PUZ-M140VKA2	\square	•	\vdash		\vdash		\square	\square	\vdash		\vdash	\square			\vdash				\vdash		\vdash	$ \rightarrow$		\square	\square	F'		+	•			-		t
	PUZ-M100YKA2		•			-	<u> </u>	\square		-			-	-	-	-	-	-		\square	, — —,	-	$ \frown $	-	—	\square	\square			•					Г
	PUZ-M125YKA2																																		Ū
	PUZ-M140YKA2		٠				٠																							٠					Ĩ
	PUZ-M200YKA2			\square	•	\square	•	\square'		\square	<u> </u>		\square		-	\square			-			\square				-	_			٠					4
	PUZ-M250YKA2		\vdash	\vdash	•	\vdash	•	\vdash	•	\vdash	-		\vdash	\vdash	\vdash	\vdash	\vdash	\vdash	-	\mapsto	_	\vdash	\vdash	\square	\vdash	-	\vdash	-	-		•				ł
1XZ SERIES 132)	MXZ-2F33VF4 MXZ-2F42VF4										P	P	P			P			P	\square						P	P						•		f
	MXZ-2F53VF(H)4			\vdash		\vdash														\square													•		t
	MXZ-2F53VFHZ2						\square														, <u> </u>	•													ſ
	MXZ-3F54VF4																																		ſ
	MXZ-3F68VF4				Ē			Ē	Ē		Ē'		Ē	Ē	Ē	Ē	•	Ē	•	Ē		•	Ē	$\overline{-}$	Ē	Ē	Ē		L						Ĺ
	MXZ-4F72VF4							-									•		•			•			•		•								ŧ
	MXZ-4F80VF4 MXZ-4F83VF2		\square	\square		\vdash											•		•			•			•		•								ł
	MXZ-4F83VF2 MXZ-4F83VFHZ2						-			\square						\vdash	•	-	•	\square	_	•	-		•		•		-						f
	MXZ-5F102VF2																•		•			•			•		•								Ę
	MXZ-6F120VF2																•		•			•			•		•	-							Ĉ
	MXZ-2HA40VF2																																٠		Ĵ
	MXZ-2HA50VF2			\square	-	\square	-	\vdash	\vdash	\square	-	<u> </u>	\square	\square	\vdash	\square		\square	-	\square	-	\square	\square			-	-	\vdash					•		ł
PUMY SERIES	MXZ-3HA50VF2 PUMY-SP112VKM2(-BS)				P	-	-	-	-	•	P	•	•	•	•	\square	-		P	\square		-			P	P	-	-	-						f
(R410A)	PUMY-SP112VKM2(-BS) PUMY-SP112YKM2(-BS)		\square	\vdash		\vdash		\square	\square	•		•	•	•	•	\square				\vdash		\vdash							\vdash						t
	PUMY-SP125VKM2(-BS)			\square		-	—			•		•	•		•	-				\square															ſ
	PUMY-SP125YKM2(-BS)												٠	•																					ſ
	PUMY-SP140VKM2(-BS)				Ē		Ē	Ē	\Box'	•	Ē'	٠	٠		•		Ē		Ē	\square	_'	\square			Ē'	Ē'	Ē		L				L		ŧ
	PUMY-SP140YKM2(-BS)									•		•	•		•				P																4
	PUMY-P112VKM6(-BS) PUMY-P112YKM5(-BS)		\square	\square		\vdash	\square	\vdash	\vdash	•		•	•	•	•	•		\square		\vdash		\vdash	•												ł
	PUMY-P112YKM5(-BS) PUMY-P125VKM6(-BS)					-	-	-		•		•	•	•	•	•	-			\square			•												f
	PUMY-P125YKM5(-BS)									•		•	•	•	•	•							•						\mathbf{H}						ţ
	PUMY-P140VKM6(-BS)									•		•	•	•	•	•							•												ĺ
	PUMY-P140YKM5(-BS)									٠			٠			٠							٠												4
	PUMY-P200YKM3(-BS)			\square	Ē	\square	Ē	Ĺ	Ĺ	•	Ĺ	•	•	•	•	٠	Ļ	Ĺ	Ĺ	Ĺ	È	Ĺ	٠	Ļ	Ļ	Ļ	Ĺ								ł
	PUMY-P250YBM2(-BS)							-				•	•	-	•																				ł
PUMY SERIES	PUMY-P300YBM2(-BS) PUMY-SM112VKM(-BS)			\vdash		\vdash		\vdash	\vdash	•		•	•	•	•			•		\vdash	•	\vdash				•									ł
R32)	PUMY-SM112VKM(-BS) PUMY-SM112YKM(-BS)					\vdash				\vdash	•	•	•	•	•	\vdash	-	•			•		-	•	-	•		•							f
	PUMY-SM125VKM(-BS)									\vdash	•	•	•	•	•			•			•			•		•		•							ſ
	PUMY-SM125YKM(-BS)										•	•	•	•	•			•			•			•		٠		•							ĺ
	PUMY-SM140VKM(-BS)																									٠									4
	PUMY-SM14YKM(-BS)			\square	Ĺ	Ĺ	Ĺ	Ĺ	Ĺ	Ĺ	٠	٠	٠	٠	•	Ĺ	Ļ	٠	Ĺ	<u>آ</u>	٠	Ĺ	Ļ	٠	Ļ	٠	Ĺ	٠	\perp						4
PXZ SERIES	PXZ-4F75VG							-	\square	\square					-	\square			•			•					•	-							4
	PXZ-5F85VG	1 1	1	1 1	1 '	1 1	1 7	1 '	1 '	1 2	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u>'</u> ا		<u> </u>			<u> </u>		ل	ا		' <u>ــــــــــــــــــــــــــــــــــــ</u>									1

	Branch Box	Reactor Box				Different Dia	ameter Joint			
	Outer Cover	Heactor Box	ø9.52>ø12.7	ø12.7>ø9.52	ø12.7>ø15.88	ø6.35>ø9.52	ø9.52>ø15.88	ø15.88>ø19.05	ø15.88>ø22.2	ø15.88>ø25.4
	PAC-AK350CVR-E	PAC-RB01BC	MAC-A454JP	MAC-A455JP	MAC-A456JP	PAC-493PI	PAC-SG76RJ-E	PAC-SG75RJ-E	PAC-SG71RJ-E	PAC-SG77RJ-E
PAC-MK34BC (Flare)	•	•	•	•	•	•	•	•	•	•
PAC-MK54BC (Flare)	•	•	•	•	•	•	•	•	•	•

	S&A kit						Different Diamete	er Joint				
	S&A KIT	ø6.35	->ø9.52	ø9.52	·>ø12.7	ø15.88>ø9.52	ø15.88>ø12.7	ø12.7	->ø9.52	ø12.7:	>ø15.88	
	PAC-SK60SA-E	PAC-SJ87RJ-E	PAC-SG77RJB-E	PAC-SJ88RJ-E	PAC-SG78RJB-E	PAC-SK82RJ-E	PAC-SK85RJ	PAC-SK88RJ-E	PAC-SG79RJB-E	PAC-SK89RJ-E	PAC-SG80RJB-E	
PAC-MMK40BC (Flare)	•	•		•		•	•	•		•		
PAC-MMK60BC (Flare)	•	•		•		•	•	•		•		
PAC-MMK60BCB (Brazing)												

			Outle					Protec				Drain S					(for	eventi Drain	Pan)				Centra Drain	n Pan		M-NET Adapter	Co	M-NET	ter	Control/ Service Tool	1 PC I w/att men	face board ach- t kit	Insul fc Accur	or nlator	Kit	Motor		HOSE HEATER
MAC- 856	MAC- 886	MAC- 883	PAC- SJ07	PAC- SG59	PAC- SH96	PAC- SK22	PAC- SJ06	PAC- SH63	PAC- SH95	PAC- SK21	PAC- SJ08	PAC- SG60	PAC- SG61	PAC- SK27	MAC- 643	MAC- 644	MAC- 646	PAC- 645	PAC- 646	PAC- SJ10	PAC- SJ20	PAC- SG63	PAC- SG64	PAC- SH97	PAC- SJ83	PAC- IF01	PAC- SK15	PAC- SJ96	PAC- SJ95	PAC- SK52	PAC- IF012 B-E	PAC-(S) IF013	MAC- 892	MAC- 893	PAC- LV11	PAC- SJ71	MAC- 001	MAC- 062
SG	SG-E	SG	SG-E	SG-E	SG-E	SG-E	AG-E	AG-E	AG-E	AG-E	DS-E	DS-E	DS-E	DS-E	BH-E	BH-E	RH-F	BH-F	BH-F	вн-е	BH-F	DP-E	DP-E	DP-E	DP-E	MNI-E	IVIA-E	IVIA-E	IVIA-E	51	D-E	D-E	INO-E	INO-E	IVI-J		IVIF-E	NA-E
	•										٠																											
	•		•								•											•					•			•		•				\vdash	\vdash	
			٠				٠															٠					٠			•		٠						
				•				•					•										•						•	•		•						
					•				•				•											•					•	•		•						
					•				•				•											•					•	•		•						
					•				•				•											•					•	•		•				$\left - \right $	$\left - \right $	
					٠				٠				٠											٠					٠	٠		٠						
					•				•				•											•					•	•		•				\square	\square	
																								٠					٠	٠								
					•				•				•											•					•	•								
					•				•				•											•					•	•								
					•				•				•											•					•	•								
					•				•				•											•					•	•		•						
															•																					\vdash	\vdash	
				_	٠																																	
•																			•																	\mid	\mid	
•																																						
•					•							•						•	•																			
	_				•							•																										
					•							•						•																				
					•				•				•							•				•											•	\mid		
					•				•				•							•				•											•			
					•				•				•							•				•											•			
					•				•				•							•	•			•											•	•	P	
					•				•				•								•			•											•	•		
					٠				٠				٠								٠			٠											٠	٠		
					•				•				•								•			•						-					•	•	H	
						•				•				•											•										•			
									٠	-			•												-													
					•				•				•							•				•														
					۰				٠				٠							٠				٠														
					•				•				•							•				•														
•																			٠																		•	•
					•	*	*Plea	se co	nnect	the m	huffler	to the	e gas	pipin	g with	l in 3 r	neters	• from	the p	piping	conn	ection	port	of the	outd	oor u	l nit. Pl	ease	attac	l h this	if you	are c	oncer	ned a	bout i	refrige		• noise.

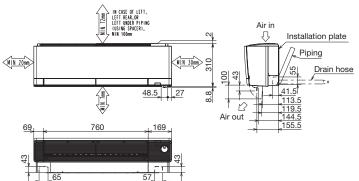
ø9.52	>ø15.88	ø9.52>ø6.35
PAC-SK90RJ-E	PAC-SG76RJB-E	PAC-SK91RJ-E
•		•
•		•
	•	

External Dimensions M SERIES



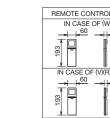


998 964 74.5 247





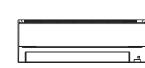
57 43 69

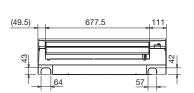


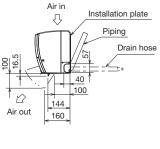
MSZ-FT25VG MSZ-FT35VG MSZ-FT50VG MSZ-FT25VGK MSZ-FT35VGK MSZ-FT50VGK

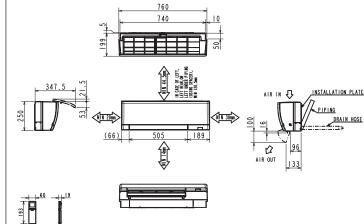
INDOOR UNIT

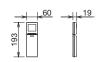








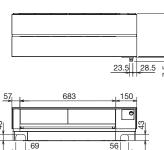


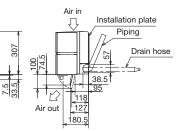


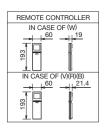
Unit : mm MSZ-LN25VG2(W)(V)(R)(B) MSZ-LN35VG2(W)(V)(R)(B) MSZ-LN50VG2(W)(V)(R)(B) MSZ-LN60VG2(W)(V)(R)(B)

INDOOR UNIT



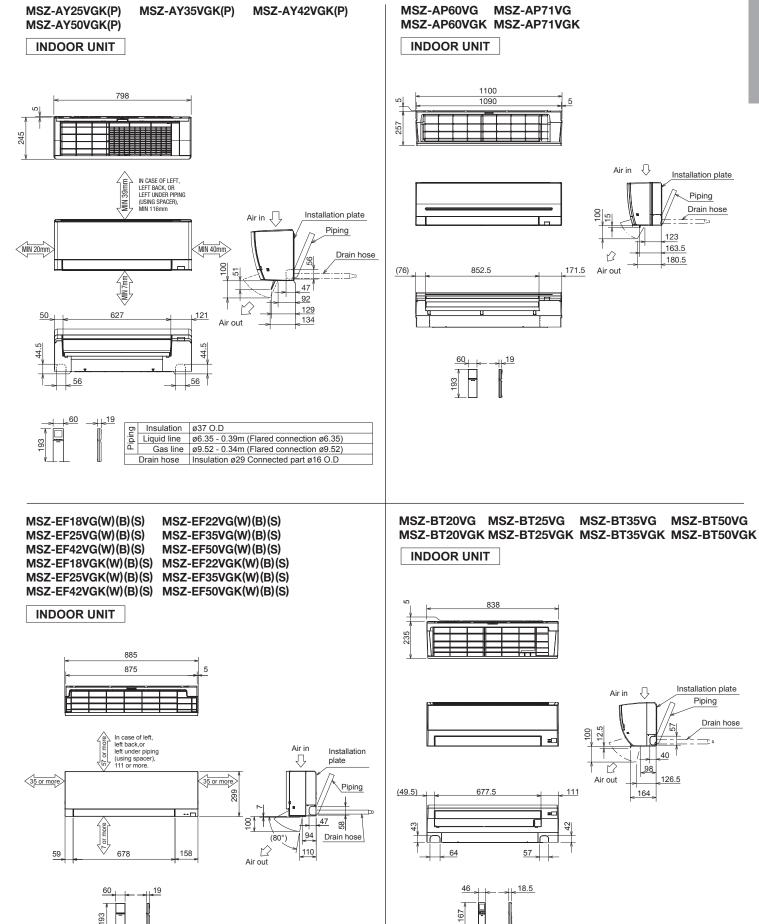






MSZ-AY15VGK(P) MSZ-AY20VGK(P) INDOOR UNIT

Unit : mm



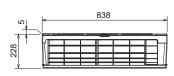
174

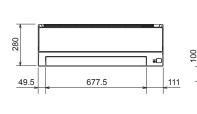
MSZ-HR25VF(K) MSZ-HR35VF(K) MSZ-HR42VF(K) MSZ-HR50VF(K)

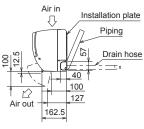


INDOOR UNIT



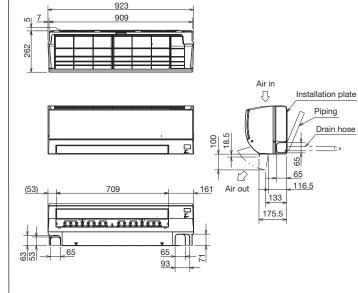






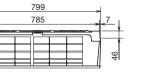


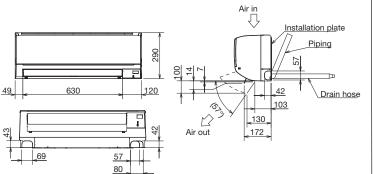


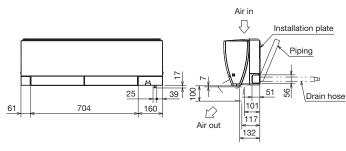




MSZ-FH25VE2 MSZ-FH35VE2 MSZ-FH50VE2 **INDOOR UNIT**







10



925

905

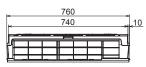
18 ľ 140

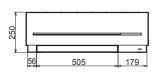
Unit : mm

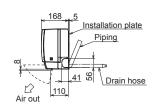
--- o

Unit : mm

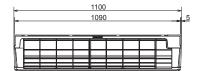
MSZ-SF15VA MSZ-SF20VA INDOOR UNIT

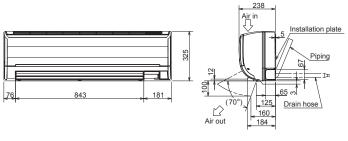






MSZ-GF60VE2 MSZ-GF71VE2 INDOOR UNIT

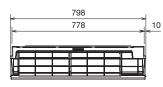


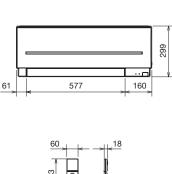


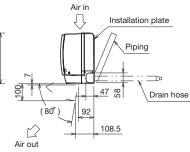


MSZ-SF25VE3 MSZ-SF35VE3 MSZ-SF42VE3 MSZ-SF50VE3

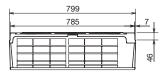


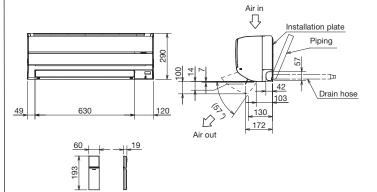


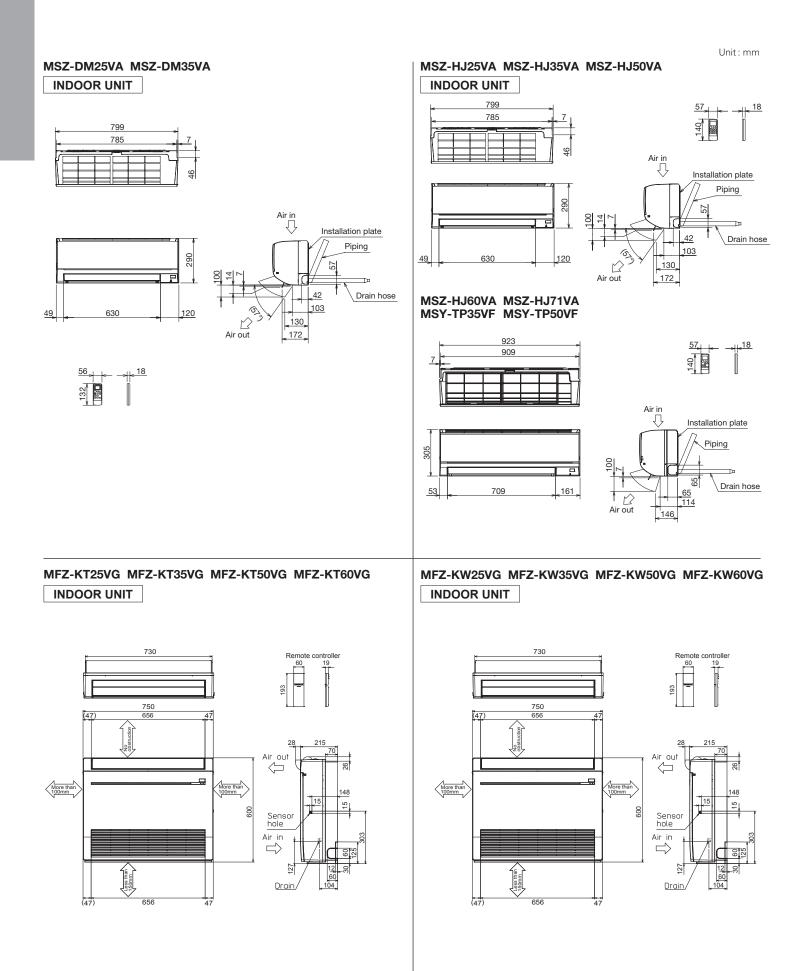




MSZ-WN25VA MSZ-WN35VA INDOOR UNIT

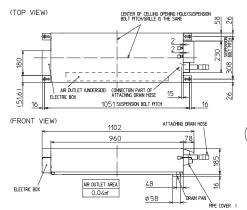




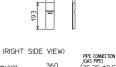


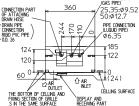
MLZ-KP25VF MLZ-KP35VF MLZ-KP50VF INDOOR UNIT

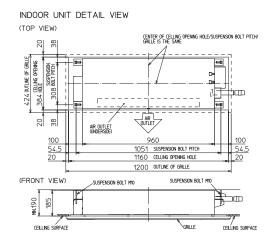
INDOOR UNIT OUTLINE DRAWING

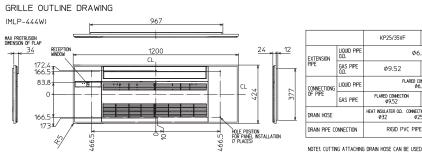


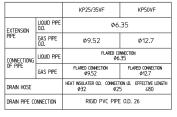


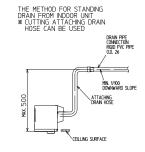






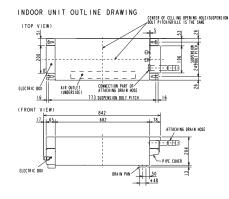




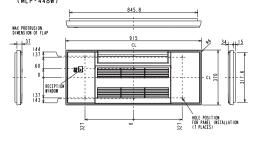


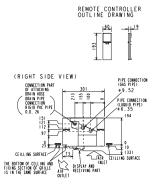
MLZ-KY20VG

INDOOR UNIT

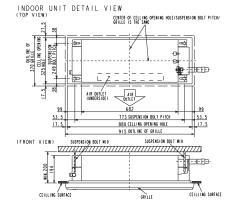


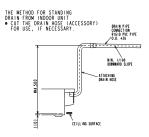
GRILLE OUTLINE DRAWING (MLP-448W)





EXTENSION	LIQUID PIPE O.D.	¢6.35
PIPE	GAS PIPE O.D.	\$9.52
CONNECTIONG	LIQUID PIPE	FLARED CONNECTION \$6.35
OF PIPE	GAS PIPE	FLARED CONNECTION \$9.52
DRAIN HOS		HEAT INSULATER O.D. CONNECTION I.D. EFFECTIVE LENGTH
DRAIN NUS	c	¢32 ¢25 480
DRAIN PIPE	CONNECTION	RIGID PVC PIPE O.D.¢26
NOTEL. CUT 1	THE DRAIN HO	SE (ACCESSORY) FOR USE, IF NECESSARY.





MUZ-LN25VG	MUZ-LN25VGHZ		Unit : mm
MUZ-LN35VG MUZ-AY20VG	MUZ-LN35VGHZ		
MUZ-AY25VG MUZ-AY35VG	MUZ-AY25VGH MUZ-AY35VGH		
MUZ-AY42VG MUZ-FT25VGHZ	MUZ-AY42VGH	MUZ-HR42VF MUZ-HR50VF	CORDECK ONT
MUZ-FH25VE MUZ-FH25VEHZ	MUZ-FH35VE MUZ-FH35VEHZ	MUZ-DW50VF	400 Drain hole e42 e42
MUZ-EF25VG MUZ-EF35VG	MUZ-EF25VGH MUZ-EF35VGH	MUY-TP50VF	
MUZ-EF42VG MUZ-SF25VE	MUY-TP35VF MUZ-SF25VEH	MUZ-SF35VE MUZ-SF42VEH	286 arrin and arrived and arrived arr
MUZ-SF35VEH MUZ-HJ50VA MUFZ-KJ25VE	MUZ-SF42VE		Air out Oval holes 2-10X21
	MUFZ-KJ35VE MUFZ-KJ35VEHZ	MUZ-BT50VG	22.3
			Handle Handle Service panel

150

302.5

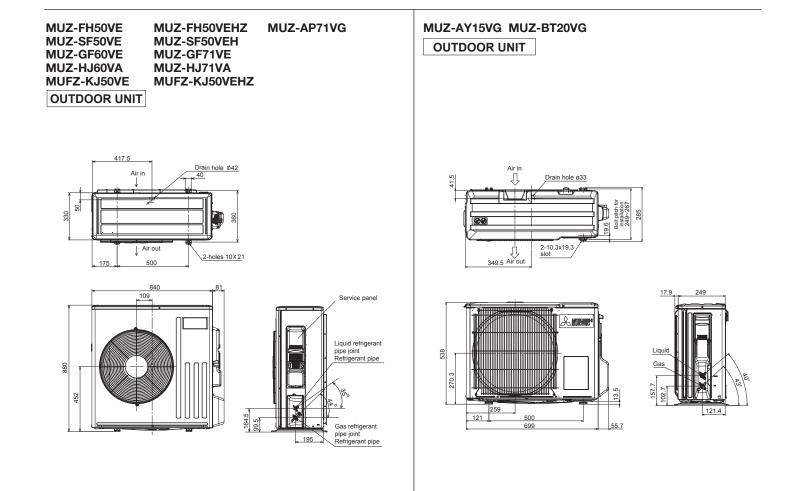
500 Bolt pitch for installation

Service port / 170.5

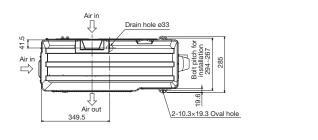
Gas refrigerant pipe joint

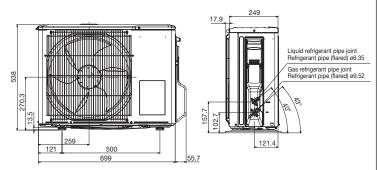
164.5

69

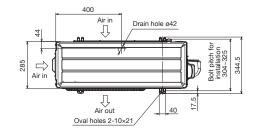


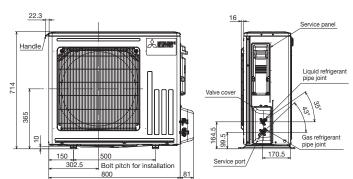
MUZ-WN25VA MUZ-WN35VA MUZ-HR25VF MUZ-BT25VG MUZ-DM25VA MUZ-DM35VA MUZ-HR35VF MUZ-BT35VG MUZ-HJ25VA MUZ-HJ35VA MUZ-DW25VF MUZ-DW35VF OUTDOOR UNIT



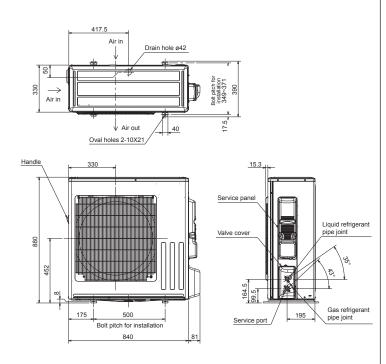


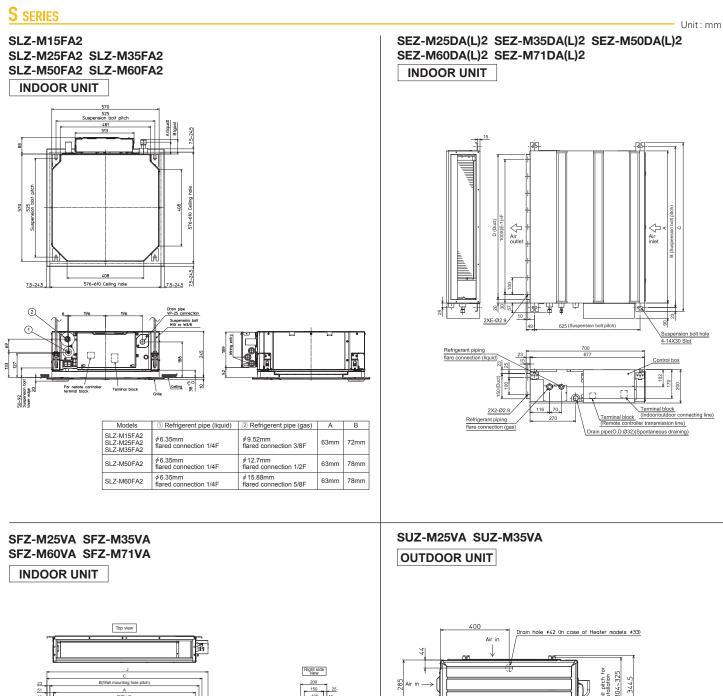
MUZ-RW25VGHZ MUZ-RW35VGHZ MUZ-LN50VG MUZ-FT35/50VGHZ MUZ-AY50VG MUZ-AY50VGH MUZ-AP60VG MUZ-EF50VG MUZ-HR60VF MUZ-HR71VF OUTDOOR UNIT Unit : mm

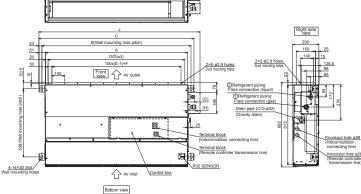


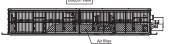


MUZ-RW50VGHZ MUZ-LN60VG2 MUZ-LN50VGHZ2 OUTDOOR UNIT

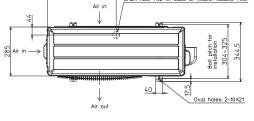


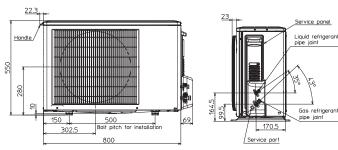






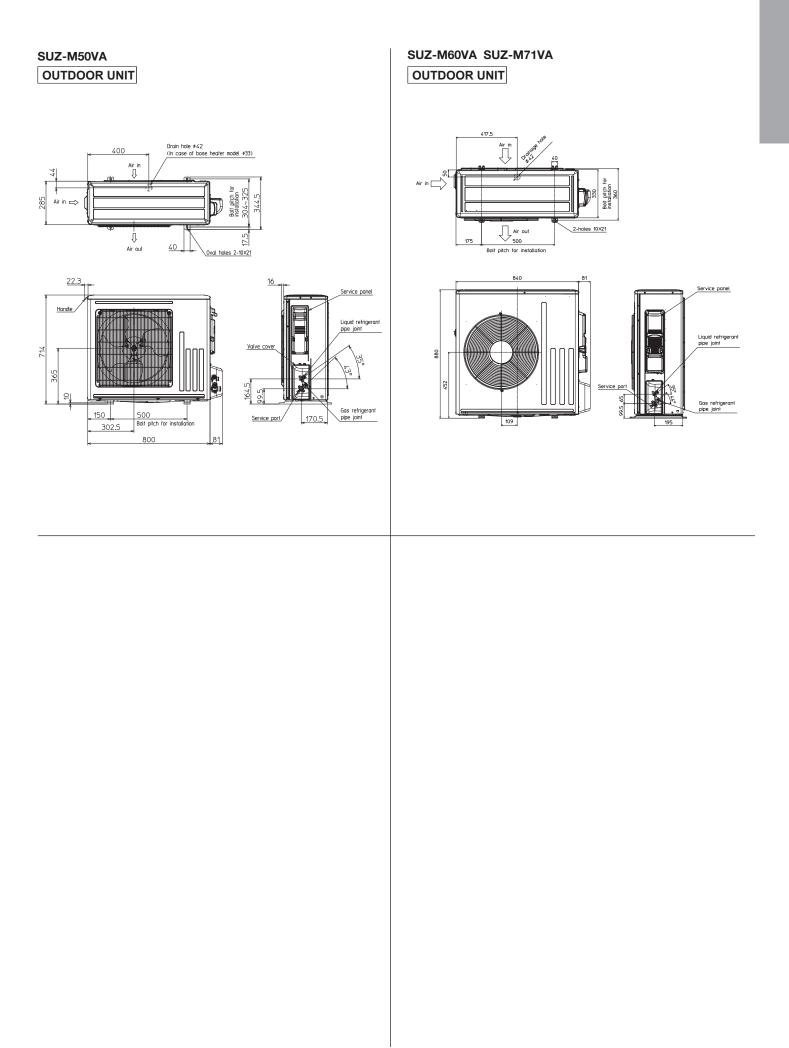
MODEL	Α	В	С	D	Е	F	G	н	J	①Gas pipe	②Liquid pipe
SFZ-M25VA	700	756	802	660	7	600	50	55	848	ø9.52	ø6.35
SFZ-M35VA	900	956	1002	860	9	800	50	55	1048	ø9.52	ø6.35
SFZ-M50VA	900	956	1002	860	9	800	50	61	1048	ø12.7	ø6.35
SFZ-M60VA	1100	1156	1202	1060	11	1000	50	66	1248	ø15.88	ø6.35
SFZ-M71VA	1100	1156	1202	1060	11	1000	55	66	1248	ø15.88	ø9.52



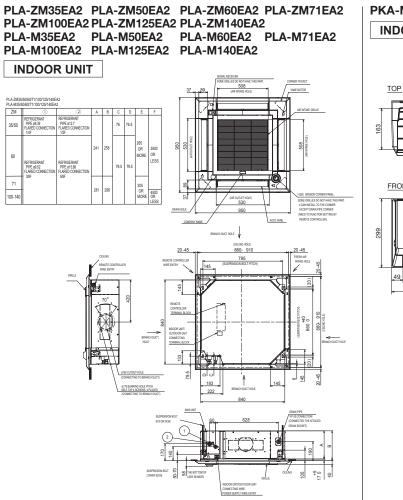


Gas ref pipe joi

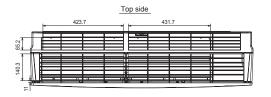
181

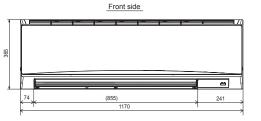


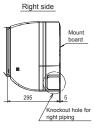
P SERIES



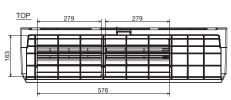
PKA-M60KA(L)2 PKA-M71KA(L)2 PKA-M100KA(L)2 INDOOR UNIT

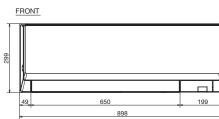


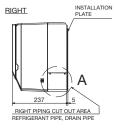




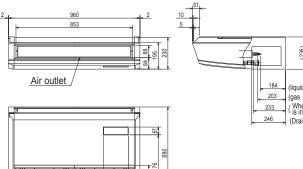
PKA-M35LA(L)2 PKA-M50LA(L)2 INDOOR UNIT

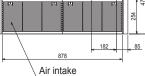


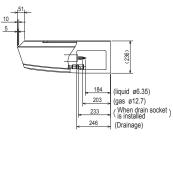




PCA-M35KA2 PCA-M50KA2 **INDOOR UNIT**







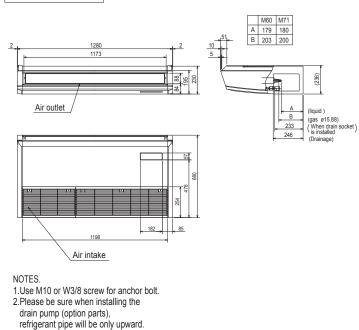
NOTES.

1.Use M10 or W3/8 screw for anchor bolt. 2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

183

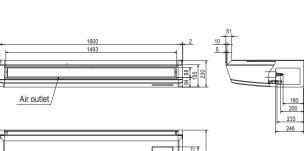
- Unit : mm

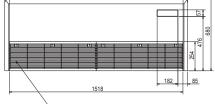
PCA-M60KA2 PCA-M71KA2



Use the current nuts meeting the pipe size of the outdoor unit. Available pipe size

PCA-M100KA2 PCA-M125KA2 PCA-M140KA2





Air intake

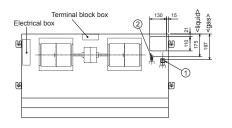
NOTES.

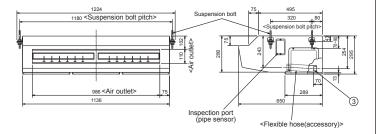
1.Use M10 or W3/8 screw for anchor bolt. 2.Please be sure when installing the

drain pump (option parts),

refrigerant pipe will be only upward.

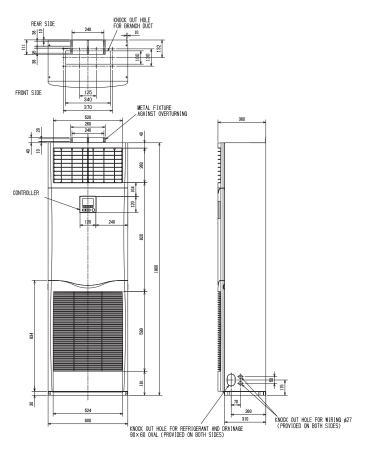
PCA-M71HA2 INDOOR UNIT





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

PSA-M71KA PSA-M100KA PSA-M125KA PSA-M140KA



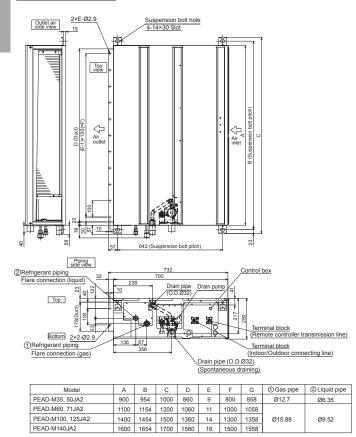
(236)

(liquid ø9.52)

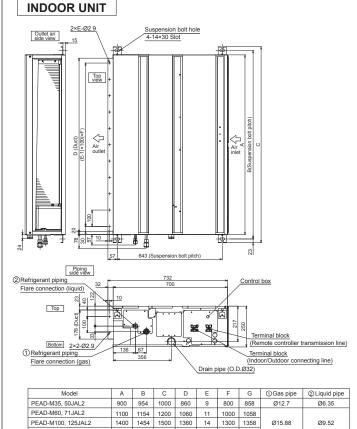
(gas ø15.88) (When drain socket) (Drainage)

PEAD-M35JA2 PEAD-M50JA2 PEAD-M60JA2 PEAD-M71JA2 PEAD-M100JA2 PEAD-M125JA2 PEAD-M140JA2





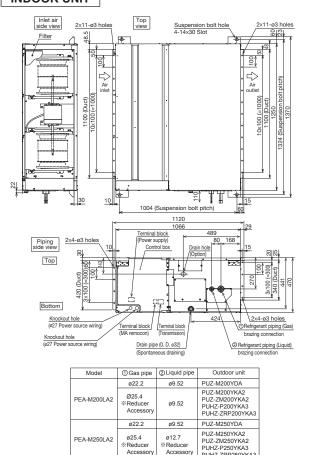
PEAD-M35JAL2 PEAD-M50JAL2 PEAD-M60JAL2 PEAD-M71JAL2 PEAD-M100JAL2 PEAD-M125JAL2 PEAD-M140JAL2



1600 1654 1700 1560 16 1500 1558

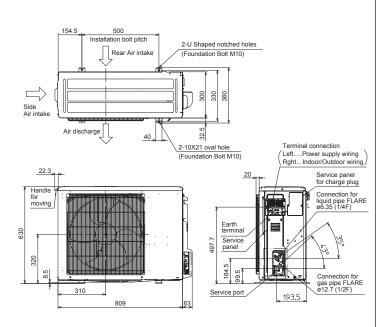
PEAD-M140JAL2

PEA-M200LA2 PEA-M250LA2 INDOOR UNIT



PUHZ-ZRP250YKA3

PUZ-ZM35VKA2 PUZ-ZM50VKA2 **OUTDOOR UNIT**



PUZ-ZM60VHA2 PUZ-ZM71VHA2 OUTDOOR UNIT

Rear Air Intake

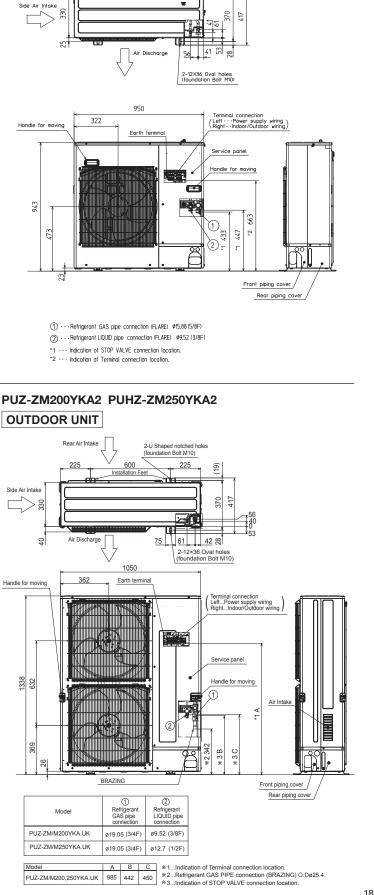
175

600

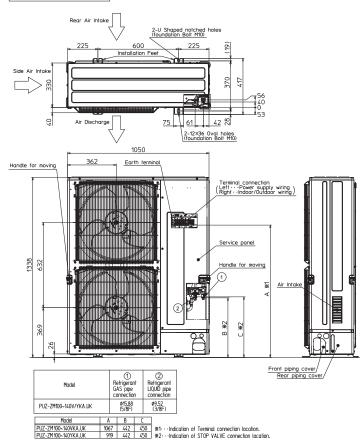
Installation Fee

2-U Shaped notched holes (foundation Bolt M10)

19)



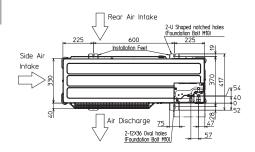
PUZ-ZM100VKA2 PUZ-ZM125VKA2 PUZ-ZM140VKA2 PUZ-ZM100YKA2 PUZ-ZM125YKA2 PUZ-ZM140YKA2 OUTDOOR UNIT

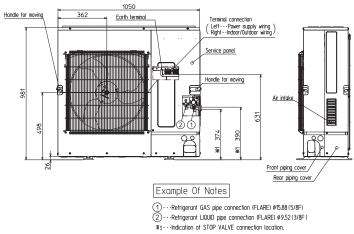


OUTDOOR UNIT

PUZ-M100VKA2 PUZ-M100YKA2 PUZ-M125VKA2 PUZ-M125YKA2 PUZ-M140VKA2 PUZ-M140YKA2

OUTDOOR UNIT





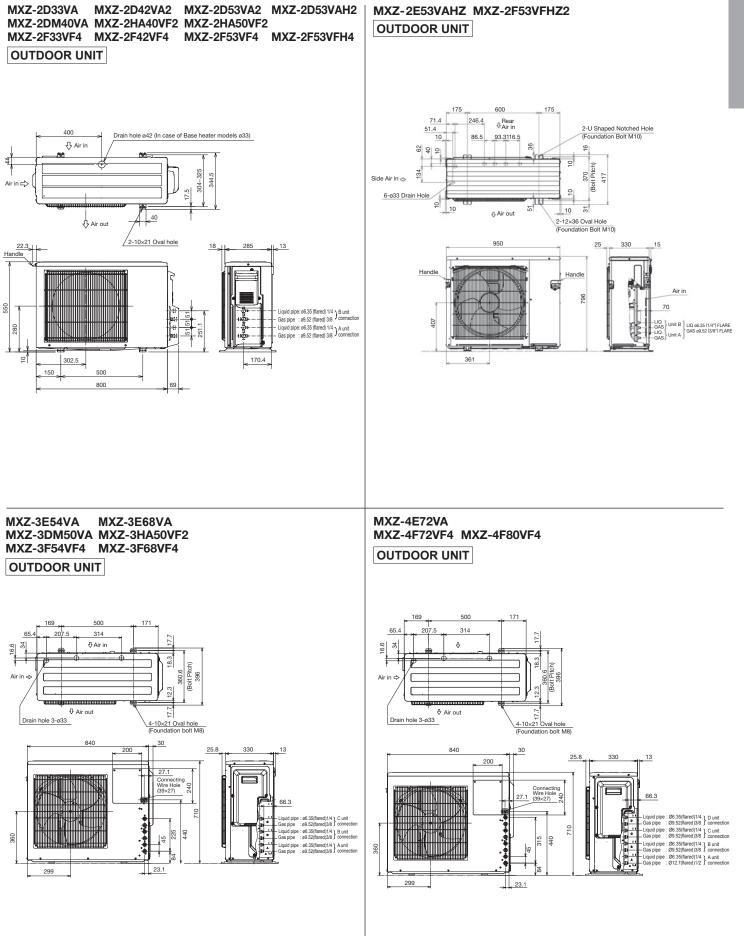
Unit : mm PUZ-M200YKA2 PUZ-M250YKA2 OUTDOOR UNIT Rear Air Intake 2-U Shaped notched holes (foundation Bolt M10) 600 225 225 (19) Insta n Feet Side Air Intake ~ 370 417 330 < <u>_____</u> N l Ð 75 61 42 🕅 Air Discharge 4 2-12×36 Oval holes (foundation Bolt M10) 1050 362 Earth terminal Handle for moving (Terminal connection Left...Power supply wiring Right...Indoor/Outdoor wiring) H, c Service panel 1338 632 Handle for moving D Air Intake 28 *1A KIIDIH 2

3	•	<u> . /</u>		
· · ·	BRAZING			Front piping cover
Model	1 Refrigerant GAS pipe connection	② Refrigerant LIQUID pipe connection		Rear piping cover
PUZ-ZM/M200YKA.UK	ø19.05 (3/4F)	ø9.52 (3/8F)		
PUZ-ZM/M250YKA.UK	ø19.05 (3/4F)	ø12.7 (1/2F)		
Model PUZ-ZM/M200,250YKA.UK		*2Refri	ation of Terminal connectio gerant GAS PIPE connecti ation of STOP VALVE conr	on (BRAZING) O.Dø25.4.

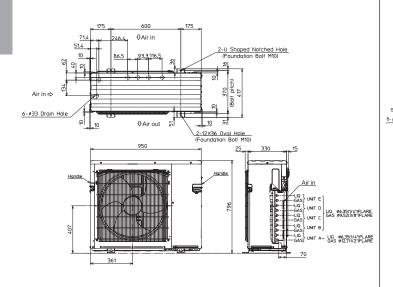
369

MXZ SERIES

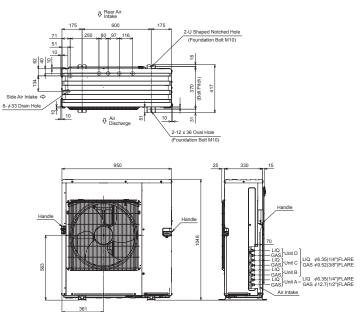
- Unit : mm



MXZ-4E83VA MXZ-5E102VA MXZ-4F83VF2 MXZ-5F102VF2 OUTDOOR UNIT

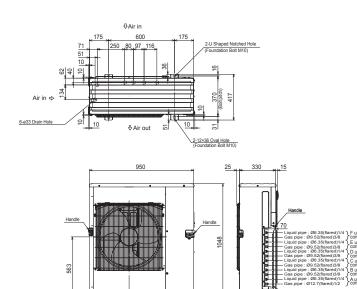


MXZ-4E83VAHZ MXZ-4F83VFHZ2



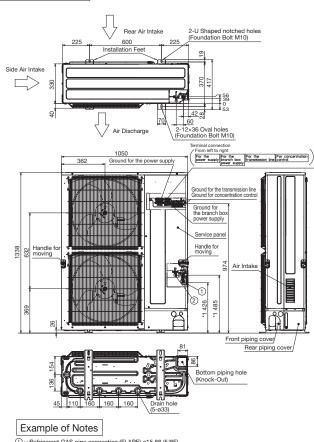
MXZ-6D122VA2 MXZ-6F120VF2

361



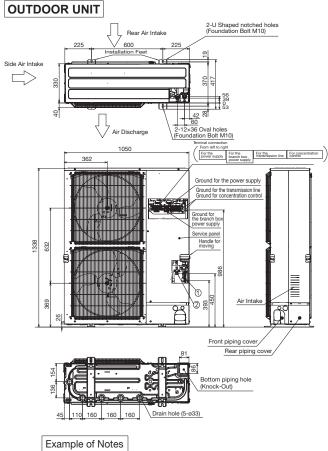
PUMY SERIES

PUMY-P112/125/140VKM6(-BS) OUTDOOR UNIT



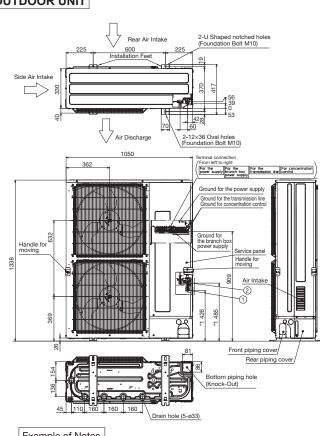
Overlage and the second s

PUMY-P200YKM3(-BS)



Ormedifierant GAS pipe connection (FLARE) e19.05 (3/4F)
 Ormedifierant LIQUID pipe connection (FLARE) e9.52 (3/8F)
 ormedication of STOP VALVE connection location.

PUMY-P112/125/140YKM5(-BS) OUTDOOR UNIT

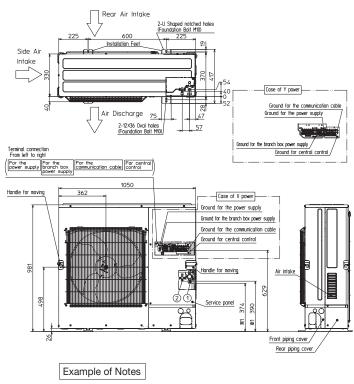


- Unit : mm

Example of Notes

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

PUMY-SP112/125/140VKM2(-BS) PUMY-SP112/125/140YKM2(-BS) OUTDOOR UNIT



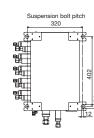
Construction (CLARE) @15.001.0767 /
 Construction (CLARE) @15.001.0767 /
 Construction (CLARE) @552(3/8F)
 **1...indication of STOP VALVE connection location.

190

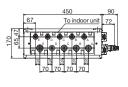
PAC-MK54BC

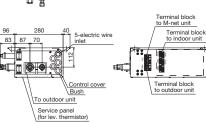
Suspension bolt: W3/W8 (M10)

Branch box



έ÷Τ

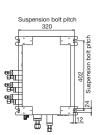






Suspension bolt: W3/W8 (M10)

Branch box



280

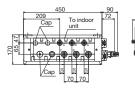
Control cover

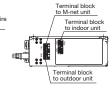
Bush

To outdoor unit

Service panel (for lev. thermistor)

83 87



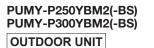


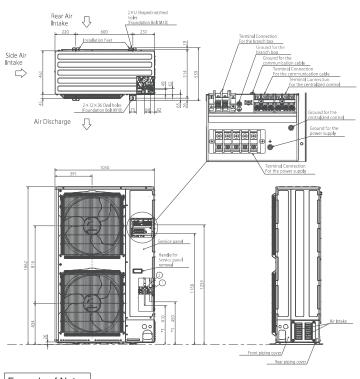
Suspension bolt : W3/8(M10)

Refrigerant pip	Refrigerant pipe flared connection										
	A	В	С			To outdoor unit					
Liquid pipe	ø6.35	ø6.35	ø6.35			ø9.52					
Gas pipe	ø9.52	ø9.52	ø9.52			ø15.88					

Suspension bolt : W3/8(M10) Pofrigorant pipo flarod

Reingerant pipe hared connection										
A	В	С	D	E	To outdoor unit					
ø6.35	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52					
ø9.52	ø9.52	ø9.52	ø9.52	ø12.7	ø15.88					
	A ø6.35	A B ø6.35 ø6.35	A B C ø6.35 ø6.35 ø6.35	A B C D ø6.35 ø6.35 ø6.35	A B C D E ø6.35 ø6.35 ø6.35 ø6.35 ø6.35 ø9.52 ø9.52 ø9.52 ø9.52 ø1.27					





Example of Notes

 O
 ••• Refrigerant GAS pipe connection Ø22.2(7/8F)

 O
 ••• Refrigerant LIQUID pipe connection Ø9.52(3/8F)

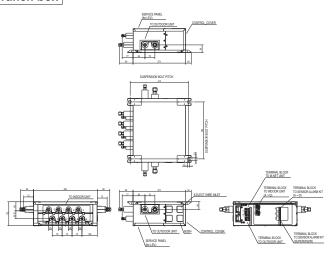
 *1•••• Indication of STOP VALVE and BALL VALVE connection location.

PAC-MMK40BCB

Suspension bolt: W3/W8 (M10)

Branch box

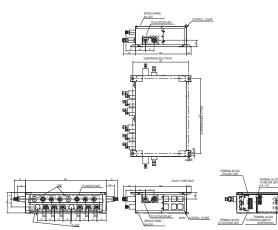
SUSPENSION BOLT: WORKIN(I) REFRIGERINT PIPE FLARED CONNECTION UDUID PIPE 66.33 66.35 66.35 66.35 GAS PIPE 66.32 69.52 69.52 69.52 61.588



PAC-MMK60BCB

Suspension bolt: W3/W8 (M10)

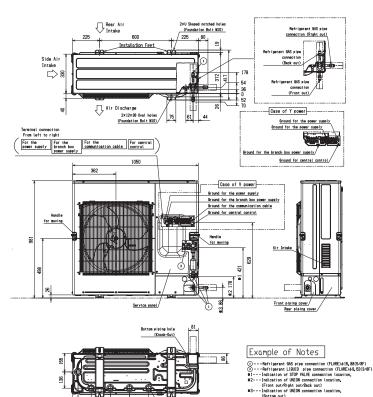
Branch box

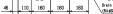




SUSPENSION BOLT - HOUGHING) REFRIGERANT PIPE PLARED CONNECTION LIQUD PIPE - 06.55 04

PUMY-SM112V(Y)KM(-BS) PUMY-SM125V(Y)KM(-BS) PUMY-SM140V(Y)KM(-BS) OUTDOOR UNIT





Piping Installation

M SERIES

Single type

Series	Class	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
Jelles	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number
MSZ-RW	25 / 35	20	12	10
	50	30	15	10
MSZ-L	25 / 35	20	12	10
	50	20	12	10
	60	30	15	10
MSZ-FT	25	20	12	10
	35 / 50	30	15	10
MSZ-A	15 / 20 / 25 / 35 / 42 / 50	20	12	10
	60 / 71	30	15	10
MSZ-EF	25 / 35 / 42	20	12	10
	50	30	15	10
MSZ-BT	20 / 25 / 35 / 50	20	12	10
MSZ-HR	25 / 35 / 42 / 50	20	12	10
	60 / 71	30	15	10
MSY-DW	25 / 35 / 50	20	12	10
MSY-TP	35 / 50	20	12	10
MSZ-F MFZ	25 / 35	20	12	10
VIFZ	50	30	15	10
MSZ-S	25 / 35 / 42	20	12	10
	50 / 60	30	15	10
MSZ-G	60 / 71	30	15	10
MSZ-W MSZ-D	25 / 35	20	12	10
MSZ-HJ	25 / 35 / 50	20	12	10
	60 / 71	30	15	10

S SERIES & P SERIES Single type

Series	Class Maximum Piping Length (m)		Maximum Height Difference (m)	Maximum Number of Bends	
Genes	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number	
Power Inverter (PUZ-ZM)	35 / 50	50	30	15	
	60 / 71	55	30	15	
	100 / 125 / 140	100	30	15	
Standard Inverter (PUZ-M & SUZ-M)	25 / 35	20	12	10	
	50 / 60 / 71	30	30	10	
	100	55	30	15	
	125 / 140	65	30	15	

Twin type

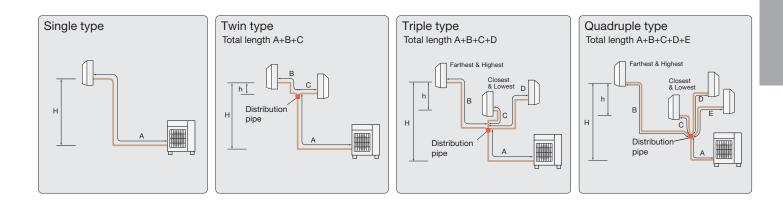
		Ma	ximum Piping Length	(m)	Maximum Height Difference (m)		Maximum Number of Bends
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C	Pipe length difference from distribution pipe B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
Power Inverter (PUZ-ZM)	71	55	8	20	30	1	15
	100 / 125 / 140	100	8	20	30	1	15
	200 / 250						
Standard Inverter (PUZ-M)	100	55				1	
	125 / 140	65	8	20	30		15
	200 / 250						

Triple type

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

Quadruple type

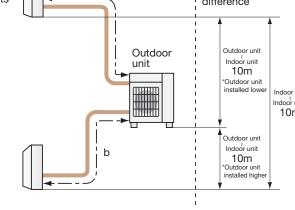
		Ma	ximum Piping Length	(m)	Maximum Heigh	Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D+E	Pipe length difference from distribution pipe B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
Power Inverter (PUZ-ZM)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



MXZ SERIES

MXZ-2D33VA, MXZ-2F33VF4 Maximum Piping Length		Indoor aa	Maximum height
Outdoor unit - Indoor unit (a,b)	15m		
Total length (a+b)	20m		
Maximum Number of Benc	ls	Outdoor unit	Outdoor unit Indoor unit 10m
Outdoor unit - Indoor unit (a,b)	15		*Outdoor unit installed lower Indoor unit
Total number (a+b)	20		Indoor unit
* When connecting MFZ-KJ Series indoor unit, additional refrigerant is required. For deta Electric.	ils, please contact Mitsubishi		Outdoor unit

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



MXZ-2D42VA2, MXZ-2F42VF4

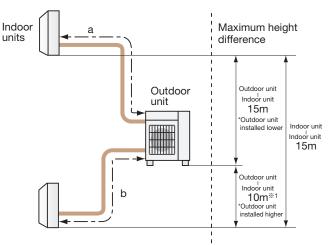
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

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

MXZ-2D53VA(H)2, MXZ-2E53VAHZ, MXZ-2F53VF(H)4, MXZ-2F53VFHZ2

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

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



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

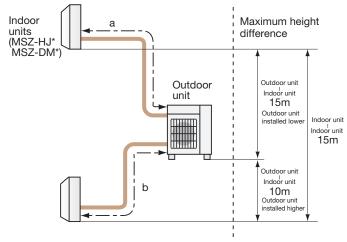
%1 in case of MXZ-2F53VFHZ2: 15m

MXZ series

MXZ-2DM40VA, MXZ-2HA40VF2, MXZ-2HA50VF2

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

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

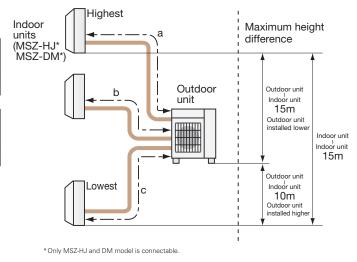


^{*} Only MSZ-HJ and DM model is connectable.

MXZ-3DM50VA, MXZ-3HA50VF2

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

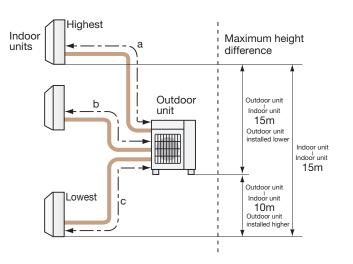
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c)	25
Total number (a+b+c)	50



MXZ-3E54VA, MXZ-3F54VF4

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

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



MXZ-4E72VA, MXZ-3F68VF4, MXZ-4F72VF4, MXZ-4F80VF4

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

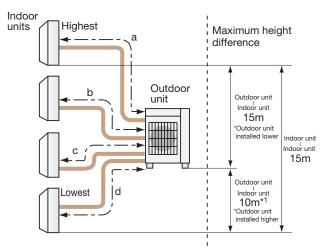
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d)	25
Total number (a+b+c+d)	60

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

MXZ-4E83VA, MXZ-4E83VAHZ, MXZ-4F83VF2, MXZ-4F83VFHZ2

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

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

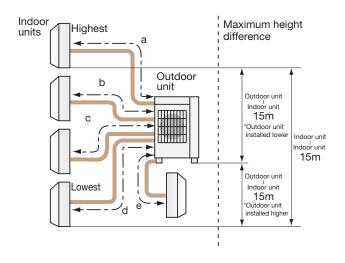


*1 in case of MXZ-4F83VF2 and MXZ-4F83VFHZ2: 15m

MXZ-5E102VA, MXZ-5F102VF2

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

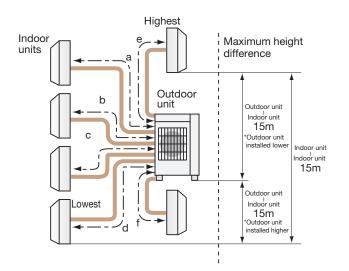
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e)	25
Total number (a+b+c+d+e)	80



MXZ-6D122VA2, MXZ-6F120VF2

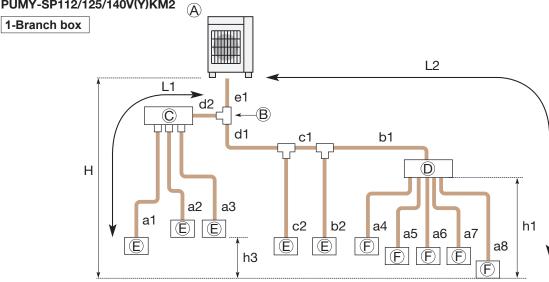
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d,e,f)	25m
Total length (a+b+c+d+e+f) 80m	

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



PUMY series

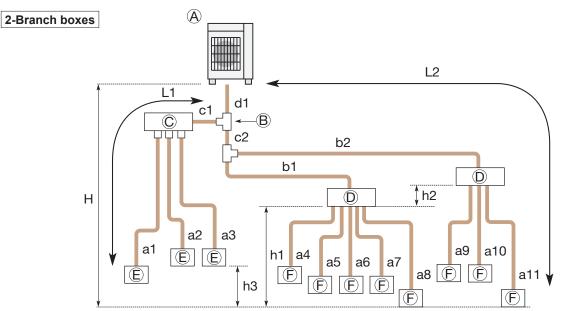
PUMY-SP112/125/140V(Y)KM2



Outdoor Unit
 First joint (CMY, MSDD)
 Branch header (CMY)
 Branch box (PAC-MK•BC(B))
 CITY MULTI Indoor unit
 M/S/P series Indoor unit

Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 120 m
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2≦70 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 55 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 50 m
	Farthest piping length after branch box	a8 ≦ 25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m
Permissible height	In indeer/outdoor costion (1)*1	$H \leq 50$ m (In case of outdoor unit is set higher than indoor unit)
difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 30$ m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 ≦ 15 m
	In each indoor unit (h3)	h3≦12 m
Number of bends		e1 + d2 + a1 , $ e1 + d2 + a2 $, $ e1 + d2 + a3 $, $ e1 + d1 + c2 $, $ e1 + d1 + c1 + b2 $, e1 + d1 + c1 + b1 + a4 , $ e1 + d1 + c1 + b1 + a5 $, $ e1 + d1 + c1 + b1 + a6 $, $ e1 + d1 + c1 + b1 + a7 $, $ e1 + d1 + c1 + b1 + a8 \le 15$

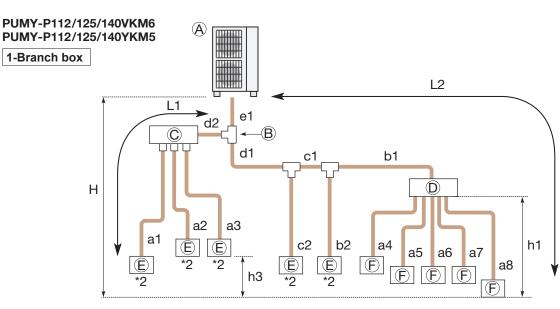
*1: Branch box should be placed within the level between the outdoor unit and indoor units.



- Outdoor Unit
 B First joint (CMY, MSDD)
 G Branch header (CMY)
 Branch box (PAC-MK•BC(B))
 CITY MULTI Indoor unit
 M/S/P series Indoor unit

Permissible length	Total piping length	d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 120 m
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 70 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11≦ 80 m
	Piping length between outdoor unit and branch boxes	d1 + c2 + b1 + b2≦ 55 m
	Farthest piping length from the first joint	c2 + b2 or c1 + a1≦ 50 m
	Farthest piping length after branch box	a11 ≦ 25 m
	Farthest branch box from outdoor unit	d1 + c2 + b2≦ 55 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 95 m
Permissible height difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 50$ m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 30 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m
	In each branch unit (h2)	h2 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		d1 + c1 + a1 , d1 + c1 + a2 , d1 + c1 + a3 , d1 + c2 + b1 + a4 , d1 + c2 + b1 + a5 , d1 + c2 + b1 + a7 , d1 + c2 + b1 + a7 , d1 + c2 + b1 + a8 , d1 + c2 + b2 + a9 , d1 + c2 + b2 + a10 , d1 + c2 + b1 + a8 , d1 + c2 +

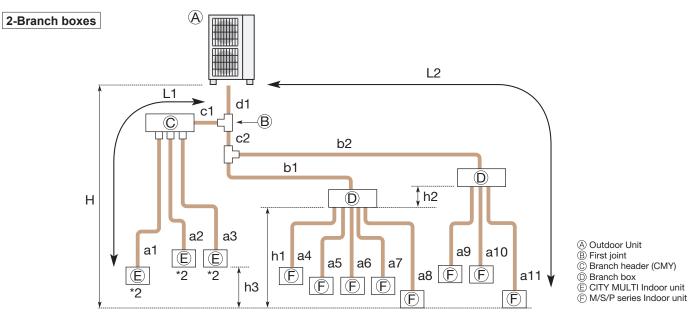
*1: Branch box should be placed within the level between the outdoor unit and indoor units.



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

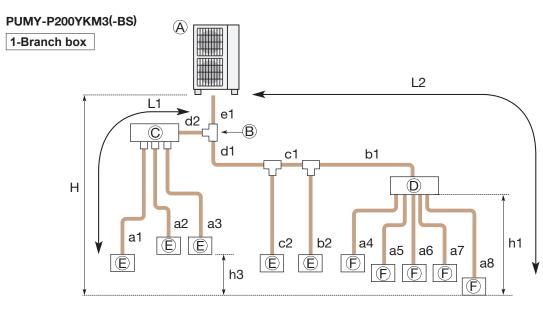
Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 300 m
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2≦85 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 55 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 30 m
	Farthest piping length after branch box	a8 ≦ 25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m
Permissible height	la indens/autolesa antina (LDV)	$H \leq 50$ m (In case of outdoor unit is set higher than indoor unit)
difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 40$ m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 ≦ 15 m
	In each indoor unit (h3)	h3≦12 m
Number of bends		e1 + d2 + a1 , $ e1 + d2 + a2 $, $ e1 + d2 + a3 $, $ e1 + d1 + c2 $, $ e1 + d1 + c1 + b2 $,
		e1 + d1 + c1 + b1 + a4 , e1 + d1 + c1 + b1 + a5 , e1 + d1 + c1 + b1 + a6 ,
		e1 + d1 + c1 + b1 + a7 , e1 + d1 + c1 + b1 + a8 ≦ 15

*1: Branch box should be placed within the level between the outdoor unit and indoor units. *2: PKFY-P•VBM, PKFY-P10-32VLM, PFFY-P•VKM, PFFY-P•VCM, and PFFY-P•VL* type indoor units cannot be used in a mixed system.



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

*1: Branch box should be placed within the level between the outdoor unit and indoor units. *2: PKFY-P•VBM, PKFY-P10-32VLM, PFFY-P•VKM, PFFY-P•VCM, and PFFY-P·VL* type indoor units cannot be used in a mixed system.

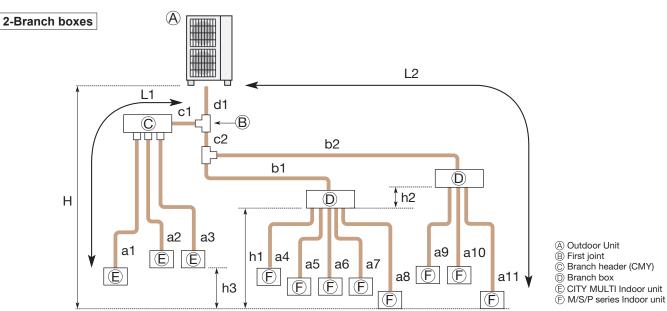


A Outdoor Unit
B First joint
B Branch header (CMY) D Branch box

- CITY MULTI Indoor unit
- E M/S/P series Indoor unit

Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 150 m
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2≦80 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 55 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 30 m
	Farthest piping length after branch box	a8 ≦ 25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m
Permissible height		$H \leq 50$ m (In case of outdoor unit is set higher than indoor unit)
difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 40$ m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 ≦ 15 m
	In each indoor unit (h3)	h3≦12 m
Number of bends		e1 + d2 + a1 , $ e1 + d2 + a2 $, $ e1 + d2 + a3 $, $ e1 + d1 + c2 $, $ e1 + d1 + c1 + b2 $,
		e1 + d1 + c1 + b1 + a4 , $ e1 + d1 + c1 + b1 + a5 $, $ e1 + d1 + c1 + b1 + a6 $,
		e1 + d1 + c1 + b1 + a7 , e1 + d1 + c1 + b1 + a8 ≦ 15

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

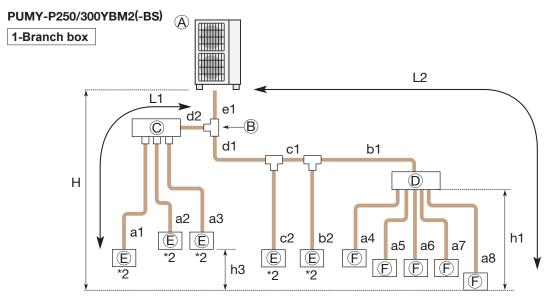


9	Outdoor Onit	
B	First joint	
6	Branch header	((

CITY MULTI Indoor unit

Permissible length	Total piping length	d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 150 m
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 80 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11≦ 80 m
	Piping length between outdoor unit and branch boxes	d1 + c2 + b1 + b2≦ 55 m
	Farthest piping length from the first joint	c2 + b2 or c1 + a1≦ 30 m
	Farthest piping length after branch box	a11 ≦ 25 m
	Farthest branch box from outdoor unit	d1 + c2 + b2≦ 55 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 95 m
Permissible height difference	In indoor/outdoor section (H)*1	$H \leq 50$ m (In case of outdoor unit is set higher than indoor unit)
		$H \leq 40$ m (In case of outdoor unit is set lower than indoor unit)
(One-way)	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m
	In each branch unit (h2)	h2 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$

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

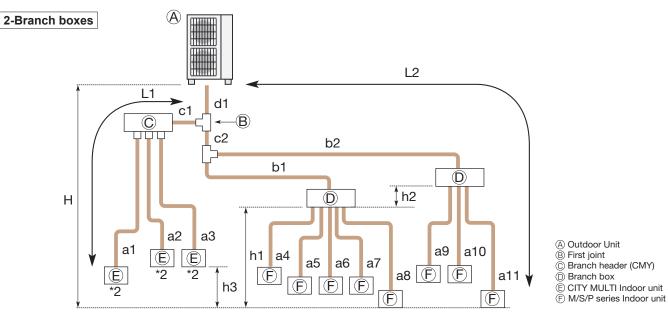


(A) Outdoor Unit B First joint © Branch header (CMY) D Branch box

- © CITY MULTI Indoor unit © M/S/P series Indoor unit

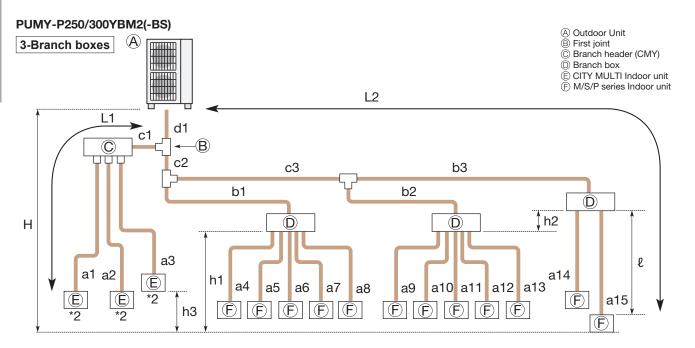
Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 310 m
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2≦85 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 80 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 30 m
	Farthest piping length after branch box	a8 ≦ 25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 145 m
Permissible height		$H \leq 50$ m (In case of outdoor unit is set higher than indoor unit)
difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 40$ m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1≦15 m
	In each indoor unit (h3)	h3≦12 m
Number of bends		e1 + d2 + a1 , $ e1 + d2 + a2 $, $ e1 + d2 + a3 $, $ e1 + d1 + c2 $, $ e1 + d1 + c1 + b2 $,
		e1 + d1 + c1 + b1 + a4 , $ e1 + d1 + c1 + b1 + a5 $, $ e1 + d1 + c1 + b1 + a6 $,
		$ e1 + d1 + c1 + b1 + a7 $, $ e1 + d1 + c1 + b1 + a8 \le 23$

*1: Branch box should be placed within the level between the outdoor unit and indoor units.
2: PKFY-P•VBM, PKFY-P10-32VLM, PFFY-P•VKM, PFFY-P•VCM, and PFFY-P•VL type indoor units cannot be used in a mixed system.



Permissible length	Total piping length	d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 310 m				
(One-way)	Farthest piping length (L1)	d1 + c1 + a1≦ 85 m				
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11≦ 80 m				
	Piping length between outdoor unit and branch boxes	d1 + c2 + b1 + b2≦ 95 m				
	Farthest piping length from the first joint	c2 + b2 or c1 + a1≦ 30 m				
	Farthest piping length after branch box	a11 ≦ 25 m				
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 145 m				
Permissible height	In indoor/outdoor section (H)*1	$H \leq 50$ m (In case of outdoor unit is set higher than indoor unit)				
difference		$H \leq 40$ m (In case of outdoor unit is set lower than indoor unit)				
(One-way)	In branch box/indoor unit section	h1 + h2 ≦ 15 m				
	In each branch unit (h2)	h2 ≦ 15 m				
	In each indoor unit (h3)	h3 ≦ 12 m				
Number of bends		$ \begin{array}{ c c c c c c c c c c c c c$				

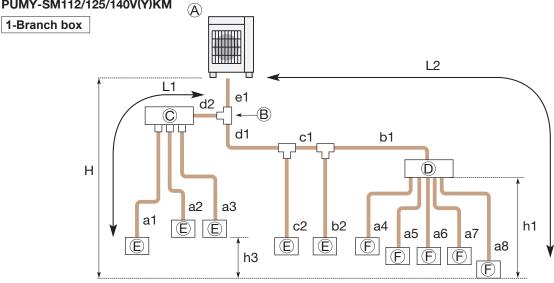
*1: Branch box should be placed within the level between the outdoor unit and indoor units *2: PKFY-P•VBM, PKFY-P10-32VLM, PFFY-P•VKM, PFFY-P•VCM, and PFFY-P•VL* type indoor units cannot be used in a mixed system..



Permissible length (One-way)	Total piping length	d1 + c1 + c2 + c3 + b1 + b2 + b3 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 + a12 + a13 + a14 + a15 \leq 310 m				
	Farthest piping length (L1)	d1 + c1 + a1≦ 85 m				
	Farthest piping length. Via Branch box (L2)	d1 + c2 + c3 + b3 + a15≦ 80 m				
	Piping length between outdoor unit and branch boxes	d1 + c2 + c3 + b1 + b2 + b3≦ 95 m				
	Farthest piping length from the first joint	c2 + c3 + b3 or c1 + a1≦ 30 m				
	Farthest piping length after branch box (ℓ)	a15 ≦ 25 m				
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 + a12 + a13 + a14 + a15 ≦ 145 m				
Permissible height	In indoor/outdoor section (H)*1	$H \leq 50$ m (In case of outdoor unit is set higher than indoor unit)				
difference	In Indoor/outdoor section (H)	$H \leq 40$ m (In case of outdoor unit is set lower than indoor unit)				
(One-way)	In branch box/indoor unit section	h1 + h2 ≦ 15 m				
	In each branch unit (h2)	h2 ≦ 15 m				
	In each indoor unit (h3)	h3 ≦ 12 m				
Number of bends		$\begin{array}{l} d1+c1+a1 , d1+c1+a2 , d1+c1+a3 ,\\ d1+c2+b1+a4 , d1+c2+b1+a5 , d1+c2+b1+a6 , d1+c2+b1+a7 ,\\ d1+c2+b1+a8 , d1+c2+c3+b2+a9 , d1+c2+c3+b2+a10 ,\\ d1+c2+c3+b2+a11 , d1+c2+c3+b2+a12 , d1+c2+c3+b2+a13 ,\\ d1+c2+c3+b3+a14 , d1+c2+c3+b3+a15 \leq 23 \end{array}$				

*1: Branch box should be placed within the level between the outdoor unit and indoor units. *2: PKFY-P•VBM, PKFY-P10-32VLM, PFFY-P•VKM, PFFY-P•VCM, and PFFY-P•VL* type indoor units cannot be used in a mixed system.

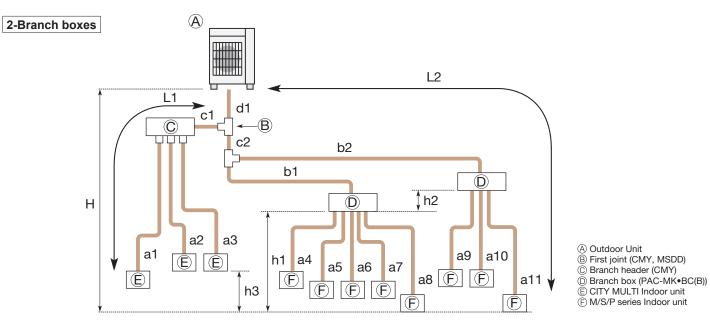
PUMY-SM112/125/140V(Y)KM



A Outdoor Unit
 B First joint (CMY, MSDD)
 C Branch header (CMY)
 D Branch box (PAC-MK•BC(B))
 C CITY MULTI Indoor unit
 F M/S/P series Indoor unit

Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 120 m				
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2≦70 m				
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8≦ 80 m				
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 55 m				
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 50 m				
	Farthest piping length after branch box	a8 ≦ 25 m				
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m				
Permissible height	le inde su/subde su section // D¥d	$H \leq 50$ m (In case of outdoor unit is set higher than indoor unit)				
difference (One-way)	In indoor/outdoor section (H)*1	$H \leq 40$ m (In case of outdoor unit is set lower than indoor unit)				
	In branch box/indoor unit section (h1)	h1≦15 m				
	In each indoor unit (h3)	h3≦12 m				
Number of bends		$\begin{array}{l} e1 + d2 + a1 , e1 + d2 + a2 , e1 + d2 + a3 , e1 + d1 + c2 , e1 + d1 + c1 + b2 , \\ e1 + d1 + c1 + b1 + a4 , e1 + d1 + c1 + b1 + a5 , e1 + d1 + c1 + b1 + a6 , \\ e1 + d1 + c1 + b1 + a7l, e1 + d1 + c1 + b1 + a8 \le 15 \end{array}$				

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



Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 120 \text{ m}$				
(One-way)	Farthest piping length (L1)	d1 + c1 + a1≦ 70 m				
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11≦ 80 m				
	Piping length between outdoor unit and branch boxes	d1 + c2 + b1 + b2≦ 55 m				
	Farthest piping length from the first joint	c2 + b2 or c1 + a1≦ 50 m				
	Farthest piping length after branch box	a11 ≦ 25 m				
	Farthest branch box from outdoor unit	d1 + c2 + b2≦ 55 m				
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 95 m				
Permissible height	la inde avie del concerti de la Ned	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)				
difference	In indoor/outdoor section (H)*1	$H \leq 40$ m (In case of outdoor unit is set lower than indoor unit)				
(One-way)	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m				
	In each branch unit (h2)	h2 ≦ 15 m				
	In each indoor unit (h3)	h3 ≦ 12 m				
Number of bends		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				

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

Explanation of Terminology

Maximum piping length:

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

Total length:

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

Outdoor Unit - Indoor Unit:

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

Pipe length difference from distribution pipe:

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

Indoor Unit - Distribution Pipe:

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

Maximum height difference:

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

Outdoor unit - Indoor unit:

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

Indoor unit - Indoor unit:

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

Maximum number of bends:

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

Total number:

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

Outdoor unit - Indoor unit:

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

Conditions for specifications

Temperature conditions are based on JIS B8616.

Cooling	Indoor	27°C DB, 19°C WB
cooling	Outdoor	35°C DB, 24°C WB
Heating	Indoor	20°C DB
Heating	Outdoor	7°C DB, 6°C WB

Refrigerant piping length ; 5m

The figures for total input are based on the following voltages.

Series	Indoor unit	Outdoor unit		
M Series S Series P Series (except for PEA) MXZ Series POWERFUL HEATING Series	_	VF, VG, VE, VA, VHA, VKA: 230V/Single phase/50Hz YA, YHA, YKA: 400V/Three phase/50Hz		
PEA Series	400V/Three phase/50Hz	400V/Three phase/50Hz		

Sound pressure level

• The sound pressure measurement is conducted in an anechoic chamber.

• The actual sound level depends on the distance from the unit and the acoustic environment.

How to read a model name

1) M & S Series

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

2) P Series

P	P Series
	"K"= Wall-mounted , "S"= Floor-standing , "L"= 4-way cassette , "E"= Ceiling-concealed ,
U	"C"= Ceiling-suspended, "U"= Outdoor unit
Н	"H"= For heating and cooling
Z	"Z"= Inverter
_	
ZM/M	"ZM"= R32 Eco-conscious Power Inverter , "M"= R32 &R410A
71	Rated cooling capacity (kW base)
V	"V"= 230V / Single phase / 50Hz , "Y"= 400V / Three phase / 50Hz
Н	Generation
А	"A"= A control

3) MXZ Series

М	M Series
Х	Multi-system outdoor unit (heat pump)
Z	Inverter heat pump
_	
4	Maximum number of connectable indoor units
D/E/F/HJ/DM/HA	Generation / Type
72	Rated cooling capacity (kW base)
V	"V"= 230V / Single phase / 50Hz, "F"= R32 with new A control
A/F	"A"= R410A with new A control
HZ	"HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model

Refrigerant Amount

M/S/P/Multi/Zubadan/ATW

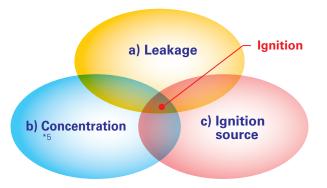
		Refrige	Refrigerant		Pre-charged quantity		Max. added quantity	
	Model Name				CO ₂	CO2		
			GWP	Weight [kg]	equivalent [t]	Weight [kg]	equivalent [t]	
	MUZ-RW25VG	R32	675	1.20	0.81	1.40	0.95	
	MUZ-RW35VG	R32	675	1.10	0.74	1.30	0.88	
	MUZ-RW50VG	R32	675	1.21	0.82	1.51	1.02	
	MUZ-LN25VG	R32	675	1.00	0.68	0.26	0.18	
	MUZ-LN25VG2	R32	675	0.8	0.54	0.20	0.135	
	MUZ-LN35VG	R32	675	1.00	0.68	0.26	0.18	
	MUZ-LN35VG2	R32	675	0.85	0.57	0.20	0.14	
	MUZ-LN50VG	R32	675	1.25	0.85	0.26	0.18	
	MUZ-LN50VG2 MUZ-LN60VG	R32 R32	675 675	1.25 1.45	0.85	0.10	0.07	
	MUZ-LN25VGHZ	R32	675	1.45	0.98	0.46	0.32	
	MUZ-LN35VGHZ	R32	675	1.00	0.68	0.26	0.18	
	MUZ-LN50VGHZ	R32	675	1.45	0.98	0.20	0.18	
	MUZ-FT25VGHZ	R32	675	0.85	0.58	0.46	0.32	
	MUZ-FT35VGHZ	R32	675	0.95	0.65	0.45	0.31	
	MUZ-FT50VGHZ	R32	675	0.95	0.65	0.45	0.31	
	MUZ-AY15VG	R32	675	0.49	0.05	0.45	0.18	
	MUZ-AY20VG	R32	675	0.55	0.34	0.25	0.18	
	MUZ-AY25VG	R32	675	0.55	0.37	0.25	0.18	
	MUZ-AY35VG	R32	675	0.55	0.37	0.26	0.18	
	MUZ-AY42VG	R32	675	0.70	0.47	0.26	0.18	
	MUZ-AY50VG	R32	675	1.00	0.68	0.26	0.18	
	MUZ-AP60VG	R32	675	1.00	0.71	0.30	0.20	
	MUZ-AP71VG	R32	675	1.50	1.02	0.30	0.20	
	MUZ-AY25VGH	R32	675	0.55	0.37	0.26	0.18	
	MUZ-AY35VGH	R32	675	0.55	0.37	0.26	0.18	
	MUZ-AY42VGH	R32	675	0.70	0.47	0.26	0.18	
	MUZ-AY50VGH	R32	675	1.00	0.68	0.26	0.18	
	MUZ-EF25VG(H)	R32	675	0.62	0.42	0.26	0.18	
	MUZ-EF35VG(H)	R32	675	0.74	0.50	0.26	0.18	
	MUZ-EF42VG	R32	675	0.74	0.50	0.26	0.18	
	MUZ-EF50VG	R32	675	1.05	0.71	0.46	0.32	
M-Series	MUZ-BT20VG	R32	675	0.45	0.30	0.26	0.18	
vi-Series	MUZ-BT25VG	R32	675	0.50	0.34	0.26	0.18	
	MUZ-BT35VG	R32	675	0.50	0.34	0.26	0.18	
	MUZ-BT50VG	R32	675	0.70	0.47	0.26	0.18	
	MUZ-HR25VF	R32	675	0.40	0.27	0.26	0.18	
	MUZ-HR35VF	R32	675	0.45	0.30	0.26	0.18	
	MUZ-HR42VF	R32	675	0.70	0.47	0.26	0.18	
	MUZ-HR50VF	R32	675	0.80	0.54	0.26	0.18	
	MUZ-HR60VF	R32	675	1.05	0.71	0.46	0.32	
	MUZ-HR71VF	R32	675	1.05	0.71	0.46	0.32	
	MUZ-DW25VF	R32	675	0.50	0.34	0.25	0.17	
	MUZ-DW35VF	R32	675	0.55	0.38	0.25	0.17	
	MUZ-DW50VF	R32	675	0.97	0.66	0.25	0.17	
	MUY-TP35VF	R32	675	0.85	0.57	0.13	0.09	
	MUY-TP50VF	R32	675	0.85	0.57	0.13	0.09	
	MUFZ-KW25VGHZ	R32	675	1.0	0.68	1.26	0.86	
	MUFZ-KW35VGHZ	R32	675	1.0	0.68	1.26	0.86	
	MUFZ-KW50VGHZ	R32	675	1.3	0.88	1.76	1.19	
	MUFZ-KW60VGHZ	R32	675	1.3	0.88	1.76	1.19	
	MXZ-2F33VF4 MXZ-2F42VF4	R32 R32	675 675	0.8	0.54	0.8	0.54	
	MXZ-2F42VF4 MXZ-2F53VF(H)4	R32 R32	675	1.0	0.675	1.0	0.675	
	MXZ-2F53VF(H)4 MXZ-3F54VF4			-			0.675	
		R32	675	2.4	1.62	0		
	MXZ-3F68VF4 MXZ-4F72VF4	R32 R32	675 675	2.4	1.62	0	0	
	MXZ-4F72VF4 MXZ-4F80VF4	R32 R32	675	2.4	1.62	0	0	
	MXZ-4F80VF4 MXZ-4F83VF2	R32 R32	675	2.4	1.62	0	0	
	MXZ-4F83VF2 MXZ-5F102VF2	R32	675	2.4	1.62	0	0	
	MXZ-6F120VF2	R32	675	2.4	1.62	0	0	
	MXZ-2F53VFHZ2	R32	675	2.4	1.62	0	0	
	MXZ-4F83VFHZ2	R32	675	2.4	1.62	0	0	
	MXZ-2HA40VF2	R32	675	0.9	0.61	0.9	0.61	
		1	1 0.0	0.0	0.01	0.0	0.01	
	MXZ-2HA50VF2	R32	675	0.9	0.61	0.9	0.61	

			Refrigerant		charged Jantity	Max. added quantity	
	Model Name		GWP	Weight [kg]	CO ₂ equivalent [t]	Weight [kg]	CO ₂ equivalent [t]
	SUZ-M25VA	R32	675	0.65	0.44	0.26	0.18
	SUZ-M35VA	R32	675	0.90	0.61	0.26	0.18
S-Series	SUZ-M50VA	R32	675	1.20	0.81	0.46	0.31
	SUZ-M60VA	R32	675	1.25	0.84	0.46	0.31
	SUZ-M71VA	R32	675	1.45	0.98	0.92	0.62
	PUZ-ZM35VKA2 PUZ-ZM50VKA2	R32 R32	675 675	2.0	1.35 1.35	0.3	0.20
	PUZ-ZIM60VHA2	R32	675	2.0	1.35	0.3	0.20
	PUZ-ZM71VHA2	R32	675	2.8	1.89	0.8	0.54
	PUZ-ZM100VKA2	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM100YKA2	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM125VKA2	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM125YKA2	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM140VKA2	R32	675	3.6	2.43	2.4	1.62
P-Series	PUZ-ZM140YKA2 PUZ-ZM200YKA2	R32 R32	675 675	3.6 6.3	2.43	2.4 9.2	1.62 6.21
	PUZ-ZM250YKA2	R32	675	6.8	4.25	9.2	6.21
	PUZ-M100VKA2	R32	675	3.1	2.1	4.8	0.21
	PUZ-M100YKA2	R32	675	3.1	2.1	1.0	0.7
	PUZ-M125VKA2	R32	675	3.6	2.4	1.0	0.95
	PUZ-M125YKA2	R32	675	3.6	2.4	1.4	0.95
	PUZ-M140VKA2	R32	675	3.6	2.4	1.4	0.95
	PUZ-M140YKA2	R32	675	3.6	2.4	1.4	0.95
	PUZ-M200YKA2 PUZ-M250YKA2	R32 R32	675 675	5.6 6.8	3.78	1.4 1.6	1.08 1.62
	PUZ-IVI2501 KA2 PUMY-SP112VKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP112YKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP125VKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP125YKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP140VKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-SP140YKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79
	PUMY-P112VKM6(-BS)	R410A R410A	2088	4.8 4.8	10.02	13.8	28.81
	PUMY-P125VKM5(-BS) PUMY-P140VKM5(-BS)	R410A	2088	4.8	10.02	13.8 13.8	28.81 28.81
PUMY	PUMY-P112YKM(E)5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P125YKM(E)6(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P140YKM(E)5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P200YKM3(-BS)	R410A	2088	7.3	15.24	13.1	27.35
	PUMY-P250YBM2(-BS)	R410A	2088	9.3	19.42	32.1	67.03
	PUMY-P300YBM2(-BS) PUMY-SM112VKM(-BS)	R410A R32	2088 675	9.3 3.0	19.42 2.03	32.1 7.5	67.03 5.06
	PUMY-SM112YKM(-BS)	R32	675	3.0	2.03	7.5	5.06
	PUMY-SM125VKM(-BS)	R32	675	3.0	2.03	7.5	5.06
	PUMY-SM125YKM(-BS)	R32	675	3.0	2.03	7.5	5.06
	PUMY-SM140VKM(-BS)	R32	675	3.0	2.03	7.5	5.06
	PUMY-SM140YKM(-BS)	R32	675	3.0	2.03	7.5	5.06
	PUZ-WM50VHA	R32	675	2.0	1.35	-	-
ATW	PUZ-WM60VAA PUZ-WM85V/YAA	R32 R32	675 675	2.2	1.49	-	-
Packaged	PUZ-WM85V/YAA PUZ-WM112V/YAA	R32 R32	675	3.0	2.03	_	_
	PUZ-HWM140V/YHA	R32	675	3.3	2.2275	-	-
	SUZ-SWM40VA	R32	675	1.2	0.81	0.4	0.27
	SUZ-SWM60VA	R32	675	1.2	0.81	0.4	0.27
	SUZ-SWM80VA	R32	675	1.2	0.81	0.4	0.27
	PUD-SWM60VAA	R32	675	1.3	0.8775	0.3	0.20
	PUD-SWM80V/YAA	R32	675	1.3	0.8775	0.3	0.20
	PUD-SWM100V/YAA PUD-SWM120V/YAA	R32 R32	675 675	1.6 1.6	1.08 1.08	0.23	0.16
0710/	PUD-SHWM60VAA	R32	675	1.6	0.945	0.23	0.16
ATVV Split	PUD-SHWM80V/YAA	R32	675	1.4	0.945	0.3	0.20
	PUD-SHWM100V/YAA	R32	675	1.7	1.1475	0.13	0.09
	PUD-SHWM120V/YAA	R32	675	1.7	1.1475	0.13	0.09
	PUD-SHWM140V/YAA	R32	675	1.7	1.1475	0.13	0.09
	PUHZ-SW75V/YAA	R410A	2088	3.0	6.27	1.8	3.76
	PUHZ-SW100V/YAA	R410A	2088	4.2	8.77	1.6	3.76
	PUHZ-SW120V/YHA	R410A	2088	4.6	9.61	2.9	6.06
	PUHZ-SW160YKA PUHZ-SW200YKA	R410A R410A	2088 2088	7.1	14.83 16.08	4.0 5.2	8.36 8.36

R32 REFRIGERANT

R32 REFRIGERANT PROPERTIES

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



	R32	R410A	R22
Chemical formula	CH ₂ F ₂	CH ₂ F ₂ /CHF ₂ CF ₃	CHCIF2
Composition (blend ratio wt. %)	Single composition	R32/R125 (50/50 wt %)	Single composition
Ozone depletion potential (ODP)	0	0	0.055
Global warming potential (GWP) *1	675	2088	1810
LFL(vol.%) *2	13.3	-	-
UFL(vol.%) *3	29.3	-	-
Flammability *4	Lower flammability (2L)	No flame propagation (1)	No flame propagation (1)

*1 IPCC 4th assessment report.

*2 LFL : Lower flammable limit

*3 UFL : Upper flammable limit

*4 ISO 817:2014

*5 R32 consistency is higher than LFL^{*1} and lower than UFL^{*2}.

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

\land WARNING

a) Do not leak refrigerant.

<Installation> ·Vacuum drying should be done. Air purging is prohibited. ·Follow "Piping Installation" on page 245. <Repair/Relocation/Removal> ·Pump down or recovering refrigerant should be done.

b) Prevent concentration.

•Ventilate during installation and servicing, such as open the door or window and use a fan. •Follow "Installation Restrictions" on page 260.

c) Keep ignition source away from the unit.

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

A CAUTION

Both R32 / R410A emit a toxic gas when coming into contact with an open flame.

INSTALLATION RESTRICTIONS

In order to prevent the refrigerant from igniting, use the following instructions during installation.

1) Indoor Units

Install in a room with a floor area of Amin^* or more, corresponding to refrigerant quantity $\mathsf{M}.$

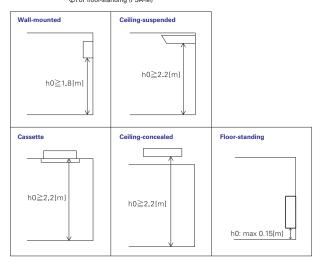
(M = factory-charged refrigerant + locally added refrigerant)

Install the indoor unit so that the height from the floor to the bottom of the indoor unit is hO^* .

* Refer to table and drawings below.

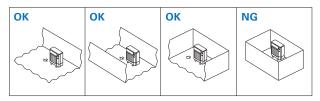
<m series=""></m>			<p series=""> ①</p>			2			<mxz series=""></mxz>			<only for="" kw="" mfz-kt=""></only>			
M[kg]	Amin [m²]		M[kg]	Amin [m²]		M[kg]	Amin [m²]		M[kg]	Amin [m²]		M[kg]	Amin[m ²]		
0.7	1.7		1.0	4		<1.84	.No requirements		1.0	3		1.00			
0.8	2.0		1.5	6		1.84	6		1.5	4.5	1.50	No			
0.0	2.0		2.0	8		2.0	6		1.5	4.5		1.50	requirements		
0.9	2.2	ſ	2.5	10		2.5	7		2.0	6		1.80			
1.0	2.5		3.0	12		3.0	9		2.5	7.5		1.84	3.63		
1.1	2.7		3.5	14		3.5	10		3.0	9		1.90	3.75		
			4.0	16		4.0	11								
1.2	3.0	ſ	4.5	20		4.5	13		3.5	12		2.00	3.95		
1.3	3.2	ſ	5.0	24		5.0	14		4.0	15.5		2.10	4.15		
1.4	3.4		5.5	29		5.5	15		4.5	20		2.20	4.34		
1.5	3.7		6.0	35		6.0	17		5.0	24		2.30	4.54		
1.0	0.7		6.5	41		6.5	18		0.0	24		2.00	-		
1.6	3.9		7.0	47		7.0	20		5.5	29		2.40	4.74		
1.7	4.2		7.5	54		7.5	21		6.0	35					
1.8	4.4	[8.0	62		8.0	22		6.5	41					
			8.5	69		8.5	24								
1.9	4.6	ſ	9.0	78		9.0	25		7.0	47					
2.0	4.9		9.5	87		9.5	26		7.5	54					
		Ċ		Il-mounte											

Suspended, cassette and conce @For floor-standing (PSA-M)



2) Outdoor Units

Install outdoor units in a place where at least one of the four sides is open or in a sufficiently large space without depressions.



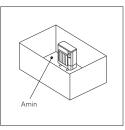
If you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

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

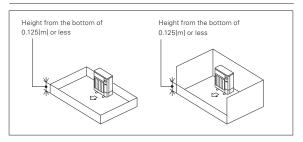
Install in a space with an installation area of Amin* or more, corresponding to refrigerant quantity M. (M = factory-charged refrigerant + locally added refrigerant)

* Refer to table and drawings below.

M[kg]	Amin[m²]
1.0	12
1.5	17
2.0	23
2.5	28
3.0	34
3.5	39
4.0	45
4.5	50
5.0	56
5.5	62
6.0	67
6.5	73
7.0	78
7.5	84
8.0	89
8.5	95
9.0	100
9.5	106



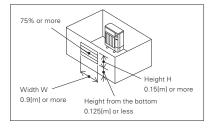
B Install in a space with a depression height of ≤ 0.125 [m].



C Create an appropriate open ventilation area.

Make sure that the width of the open area is 0.9[m] or more and the height of the open area is 0.15[m] or more. However, the height from the bottom of the installation space to

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



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

IOSSNAY SYSTEM







SELECTION

LOSSNAY lineup consists of two types of ventilation: Energy Recovery Ventilation (ERV) and Heat Recovery Ventilation (HRV). Choose the model that best matches your building layout and indoor environment.

LOSSNAY LINEUP

Application	Airflow	50 CMH	100 CMH	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1500 CMH	1600 CMH	2000 CMH	2500 CMH
Commercial	LGH-RVX3 Series					•								
	LGH-RVXT Series										•		•	•
	LGH-RVS Series									•				
	GUF Series									•				
Residential	VL-CZPVU Series				•	•	•							
	VL-100(E)U5-E		•											
	VL-50(E)S2-E VL-50SR2-E	•												

PRODUCT LINEUP

Comr	nercial	Residential						
Ceiling Cor	cealed Type	Vertical Type	Wall mounted Type					
LGH-RVX3 Series ERV A commercially oriented system that can be used to deliver high performance and functions virtually anywhere.		VL-CZPVU Series HRV Vertical type for residential use. Centralized ventilation with sensible heat exchange.	VL-100(E)U5-E ERV Wall mounted models. Particularly suitable for houses and small offices.					
LGH-RVXT Series ERV Thin, large airflow models of the LGH series that deliver high performance and functions.	LGH-RVS Series HRV Sensible heat models of the LGH series that can also be installed in sanitary areas.		VL-50(E)S2-E ERV VL-50SR2-E Wall mounted models for smaller air volumes.					

PLASMA QUAD PROTECT LINEUP

The Plasma Quad Protect lineup includes two models to match the area that needs to be covered.

JC-23KR-EU Air purifier for large areas. Includes a HEPA filter and can be installed on the wall.





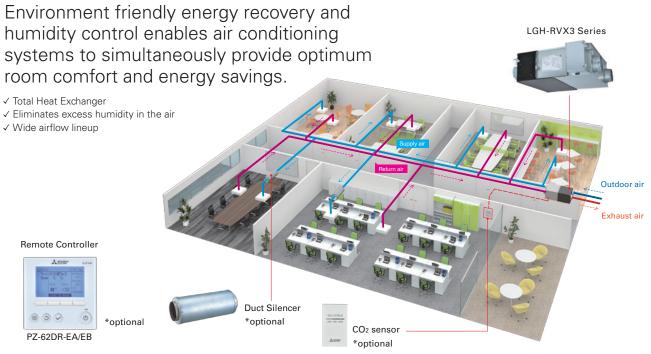
Commercial Use LOSSNAY

Mitsubishi Electric offers Energy Recovery Ventilation and Heat Recovery Ventilation solutions for optimizing building air quality by using LOSSNAY.

Energy Recovery Ventilation

A total heat exchange ventilation system that uses paper characteristics (LOSSNAY core) to perform temperature (sensible heat) and humidity (latent heat) exchange.

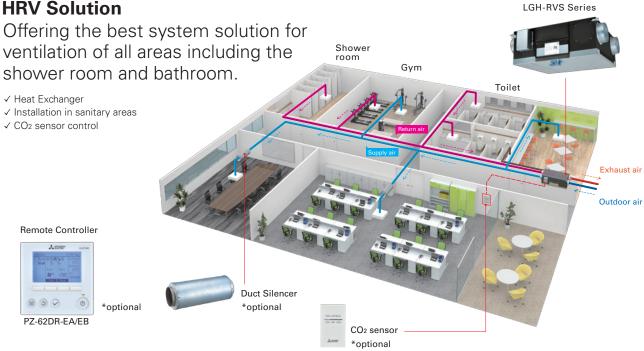
ERV Solution



Heat Recovery Ventilation

A heat exchange ventilation system that uses a heat exchanger (LOSSNAY core) to perform temperature (sensible heat) exchange.

HRV Solution



Residential Use LOSSNAY

Mitsubishi Electric offers you decentralized ventilation and centralized ventilation solutions for optimizing your indoor air quality by using LOSSNAY.

Heat Recovery Ventilation

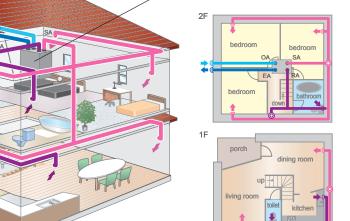
A heat exchange ventilation system that uses a heat exchanger (LOSSNAY core) to perform temperature (sensible heat) exchange.

Centralized Ventilation Solution

One LOSSNAY unit provides 24-hour ventilation for the entire house, from living room and bedrooms to the bathroom. The heat recovery system provides fresh air at a comfortable air temperature. A sensible heat exchanger effectively reduces excess humidity in the winter.



VL-250/350/500CZPVU-R-E VL-250/350/500CZPVU-L-E



Energy Recovery Ventilation

ELCloud

A total heat exchange ventilation system that uses paper characteristics (LOSSNAY Core) to perform temperature (Sensible heat) and humidity (latent heat) exchange.

Decentralized Ventilation Solution

Install a wall-mounted LOSSNAY in each room. The heat recovery system provides fresh air at a comfortable air temperature. The total heat exchanger effectively reduces heat loss.

✓ Total Heat Exchanger

✓ Heat Exchanger✓ Whole-house Solution

✓ Air Purification✓ Quiet Operation

Wi-Fi

Interface

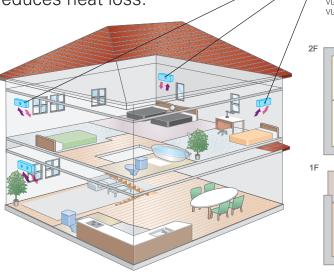
••

✓ MELCloud Control

- ✓ Individual Ventilation
- ✓ Flexible Installation
- ✓ Easy Maintenance
- ✓ Stylish Design

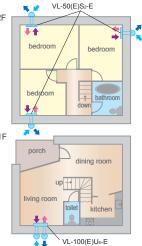


VL-100U5-E (Pull-Switch Model) VL-100EU5-E (Wall-Switch Model)



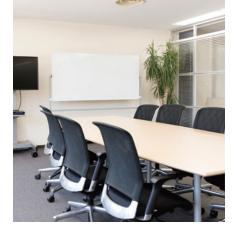


VL-50S2-E (Pull-Switch Model) VL-50ES2-E (Wall-Switch Model) VL-50SR2-E (Remote Controller Model)



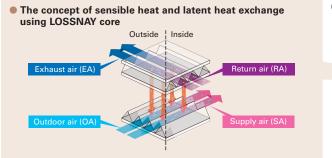
LOSSNAY

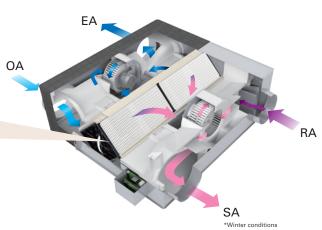
LOSSNAY ventilation systems are renowned industry-wide for their efficiency. They offer environment-friendly energy recovery and humidity control, and enable air conditioning systems to simultaneously provide optimum room comfort and energy savings.



Optimized Indoor Air Quality through Temperature and Humidity Exchange by LOSSNAY

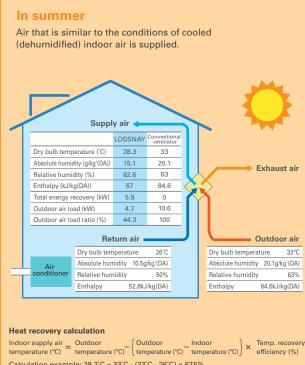
LOSSNAY is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.





What is Improved by Introducing LOSSNAY?

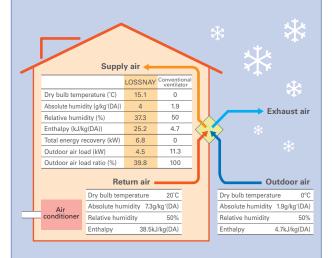
Ventilation with maximized comfort



Calculation example: $28.3^{\circ}C = 33^{\circ}C - (33^{\circ}C - 26^{\circ}C) \times 67.5\%$ *The above applies to the case of LGH-100RVX3-E. (1000m³/h)

In winter

Air that is similar to the conditions of heated (humidified) indoor air is supplied.



Heat recovery calculation

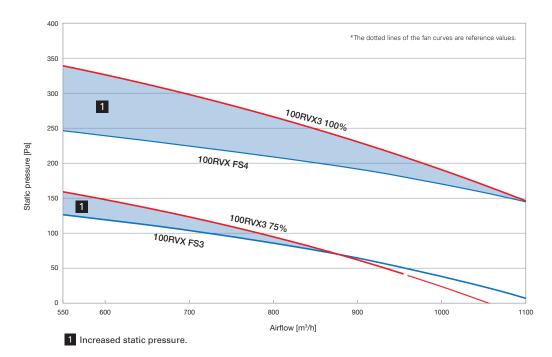
 $\begin{array}{l} \mbox{Indoor supply air} = \left\{ \begin{array}{l} \mbox{Indoor} & -\mbox{Outdoor} \\ \mbox{temperature (°C)} & -\mbox{Temp. recovery} + \begin{array}{l} \mbox{Outdoor} \\ \mbox{temperature (°C)} \end{array} \right\} \times \begin{array}{l} \mbox{Temp. recovery} + \begin{array}{l} \mbox{Outdoor} \\ \mbox{temperature (°C)} \\ \mbox{Calculation example: 15'C = (20'C - 0'C) \times 75.5\% + 0'C} \\ \mbox{*The above applies to the case of LGH-100RVX3-E. (1000m³/h)} \end{array} \right\}$



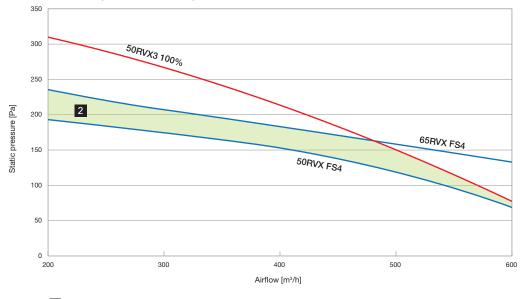
Four Key Features

High Static Pressure

External static pressure has been improved compared to previous models. Accompanying this increase in external static pressure, the selection range of models and filters has also expanded. Furthermore, flexible duct work has become possible.



Models smaller than previous models may be chosen.



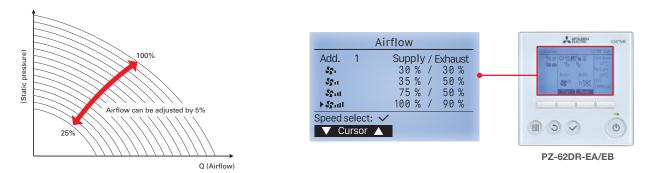
² Where 65RVX was previously chosen, 50RVX3 (one size down) may now be chosen, owing to its increased external static pressure.

Controllability

Improved airflow range

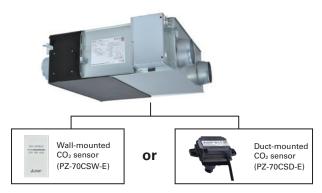
Flexible airflow setting

The default fan speed value (Fan speed 1: 25%, Fan speed 2: 50%, Fan speed 3: 75%, and Fan speed 4: 100%) of both supply air and exhaust air can be adjusted flexibly. Within the range between 25% and 100%, airflow can be adjusted by 5% increments to satisfactorily meet the designed airflow rate.



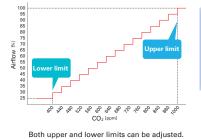
CO₂ sensor

A CO₂ sensor connected directly to a LOSSNAY RVX3 unit optimizes the fan speed according to the detected CO₂ level. It improves total heat exchange efficiency and contributes to energy savings.



Two types of CO₂ sensors are available: wall-mounted and duct-mounted types. Power is supplied to the CO₂ sensor from the LOSSNAY board.

Fan speed automatically changes from 25% to 100% (16 steps) depending on the CO2 concentration level.



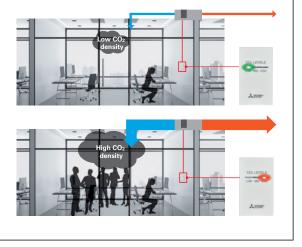
Upper limit: from 600 to 2000 ppm. Lower limit: from 300 to (upper limit –300) ppm.

50 ppm increments.



Automatic operation with CO₂ sensor

Fan speed automatically changes depending on CO₂ concentration.



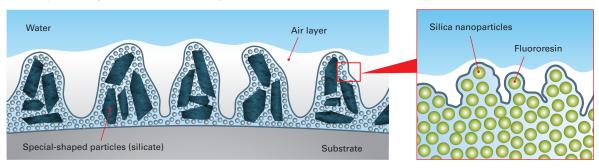


Dual Barrier Coating



Dual Barrier Coating

A water-repellent effect is achieved by a coating film that has nano-sized concave-convex structures formed by silica nanoparticles made of water-repellent fluororesin, in addition to micron-sized concave-convex structures formed by combining micron-sized special-shaped particles (silicate) with the silica nanoparticles. The uneven structure forms an air layer that suppresses the adhesion of dust and sand that contain a lot of humidity, and reduces the amount of dirt that adheres to the substrate.



Conceptual image of dual barrier coating

Upgraded Filters

The replacement filter has a certification of Coarse 60% (measured by ISO16890:2016).

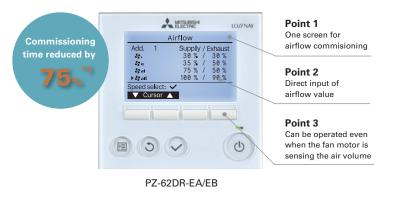


Installation Work

Short Comissioning Time with the New Remote Controller

New Remote Controller PZ-62DR-EA/EB, Supply and Exhaust air volume from FS1 to FS4 directly on one screen. It can also be operated while the fan motor is sensing the air volume.

By using PZ-62DR-EA/EB, the commissioning time for LGH-RVX3 is reduced by 75%*1 compared to the previous RVX series.



*1: The average reduction rate when installing LGH-100RVX-E with PZ-61DR-E and LGH-100RVX3-E with PZ-62DR-EA/EB. Setting work involves changing the supply/exhaust air volume. The time that can be reduced varies depending on the operator and work conditions.

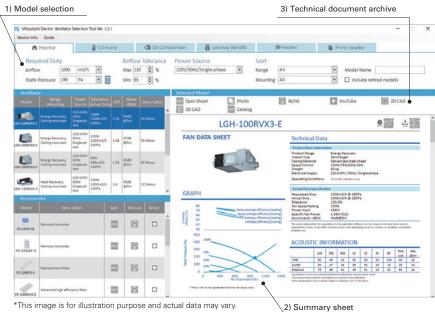
Flexible Vertical and Horizonal Installation

For RVX3 series, vertical installation has become possible for greater flexibility of installation locations. By using optional parts, the unit can be installed in places such as the machine room where only vertical installation is possible.



Mitsubishi Electric Ventilator Selection Tool

Mitsubishi Electric Ventilator Selection Tool is software for selecting optimal ventilation fans. In addition to supporting the selection of a sufficient model, it also provides necessary technical documents.



1. Model selection

An appropriate model can be selected simply by inputing the necessary air volume and static pressure. Optional parts that go with the selected model will also be listed.

2. Summary sheet

Data of the selected model can be downloaded by PDF file. SFP at duty, acoustic information, and energy saving calculation can be also download (varies by model).

3. Technical document archive

Other technical data needed for ventilation system design are also available.

2D CAD





Spec sheet

3D CAD ...and more!

* Inis image is for illustration purpose and actual data may vary. *Ratings and specifications may change due to product improvements or modifications.

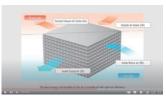
LOSSNAY YouTube Channel

LOSSNAY YouTube channel provides you videos on LOSSNAY features, structures, and more! Please check the 2D code below for more details.

■RVX3 Series features



LOSSNAY structure



■How to select a model





LGH-RVXT SERIES



The LGH-RVXT Series delivers a large airflow of 1500-2500 CMH with a thin body of approximately 500mm that can be easily installed in the ceiling.

LGH-150/200/250RVXT-E

Thin Body Type

LGH-200RVX3-E



Height: 808mm



LGH-150/200/250RVXT-E





Ceiling

LGH-RVXT installation image



LGH-RVS SERIES

The LGH-RVS Series of sensible heat LOSSNAY models allows diverse solutions and options in response to customer needs.

LGH-50/80/100RVS-E

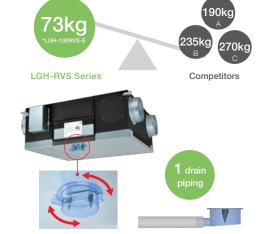
Easy Installation

Light frame

Being frame is one of the most important factors for installation. The light frame of the LGH-RVS series provides an advantage in terms of installation cost and safety.

Easy drain piping

- Only one drain piping for both supply air and exhaust air
- 360-degree drain pipe connection
- Trap piping work is NOT required owing to an internal backflow stopper



Optional Parts

The LGH-RVS series can connect with various optional parts. A CO₂ sensor is one of the best solutions for optimized airflow control. The unit operates while optimizing airflow in accordance with the level of CO₂ concentration in the room. Optimized ventilation can reduce the energy consumption of the air conditioner. A high-efficiency filter can be optionally installed in the unit as an easy solution for even better indoor air quality.

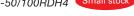


GUF SERIES



Along with LOSSNAY ventilation, the OA processing unit is really two units in one, functioning as the main air conditioner when the load is light and adding supplemental air conditioning when the load is heavy.

GUF-50/100RD4 GUF-50/100RDH4 Small stock



These units can be used with R410A. Outdoor units are available for the GUF-RD/RDH series (for details see Mitsubishi Electric's CITY MULTI catalog).

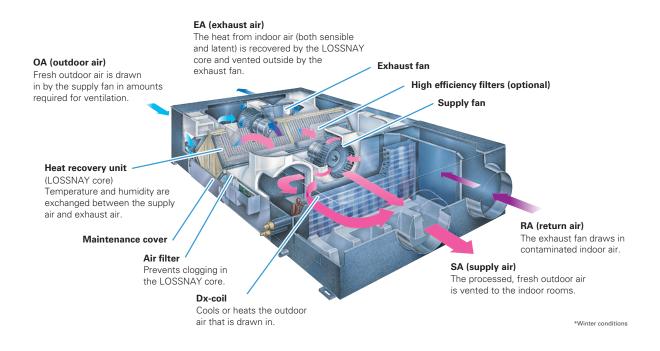
R410A Refrigerant Units

Mode	el Size	P112	P125	P140	P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800
Y Series	PUHY-YGM-A																
R2 Series	PURY-YGM-A																
DUNAX Carias	PUMY-SP																
PUMY Series	PUMY-P																

LOSSNAY Ventilation and Air Conditioning

The OA (outdoor air) Processing Unit creates an optimum environment while providing substantial energy savings. It delivers forced air ventilation, heat recovery, heating and cooling, and air purification. This total air conditioning system keeps indoor air fresh and comfortable all year round, and keeps it free of contaminants that could cause ailments such as sick building syndrome. Inside the OA Processing Unit is the LOSSNAY core, a heat exchange unit that transfers heat efficiently, and cuts ventilation load by as much as 70%. A remarkable product found nowhere else, this special combination of functionality and performance contained within a single unit ensures users ample comfort, good health, and energy savings.

GUF-RD type



LGH-RVX3 SERIES

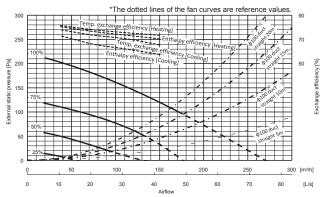
Specifications

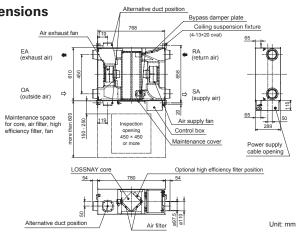
LGH-15RVX3-E

Electrical power supply				220-240V/50H	lz, 220V/60Hz				
Fan speed		4	3	2	1	The second states			
Default airflow setting		100%	75%	50%	25%	Test condition			
Input power (W)		55	30	15	10				
Airflow	(m ³ /h)	150	113	75	38				
(L/s)		42	31	21	10				
Specific fan power [W/(L/s)]		1.32	.32 0.96 0.72		0.96				
External static pressure (Pa)		120	68	30	8	ISO 16494-1: 2022			
Temperature exchange	Heating	73.5	75.5	78.0	81.5				
efficiency (%)	Cooling	65.5	70.5	73.5	78.0				
Enthalpy exchange efficiency (%)	Heating	70.5	73.5	76.5	80.5				
.,	Cooling	58.0	62.0	66.0	73.0				
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		27.0	22.0	18.0	17.0	A-weighted sound pressure level			
Exhaust air transfer ratio (%)			5	.0		EN308: 2022/FS3			
Weight (kg)			20						

Characteristic Curves



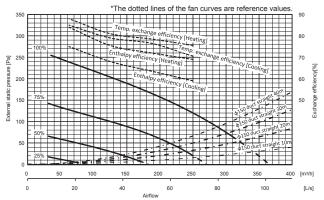


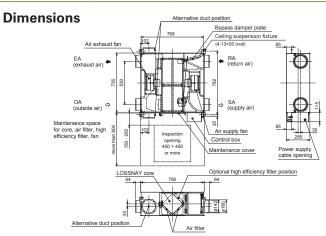


LGH-25RVX3-E

Electrical power supply				220-240V/50H	lz, 220V/60Hz	
Fan speed		4	3	2	1	Test condition
Default airflow setting		100%	75%	50%	25%	Test condition
Input power (W)		75	42	21	11	
Airflow (m ³ /h)		250	188	125	63	
Alfflow (L/s)		69	52	35	17	
Specific fan power [W/(L/s)]		1.08	0.81	0.60	0.63	
External static pressure (Pa)		120	68	30	8	ISO 16494-1: 2022
Temperature exchange	Heating	75.5	78.5	81.0	88.0	
efficiency (%)	Cooling	70.5	76.5	79.0	85.0	
Enthalpy exchange efficiency (%)	Heating	69.0	72.0	75.5	84.0	
	Cooling	59.0	63.5	68.0	75.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		30.5	25.0	19.5	17.0	A-weighted sound pressure level
Exhaust air transfer ratio (%)			5	.0		EN308: 2022/FS3
Weight (kg)				2	2	

Characteristic Curves





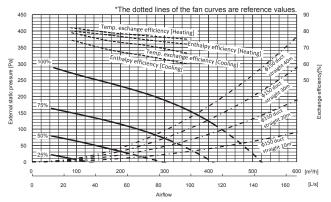
For LGH-RVX3 series

*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation. *Specifications may be subject to change without notice.

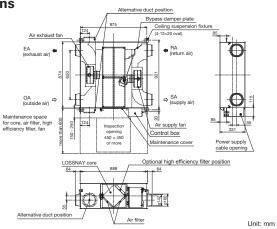
LGH-35RVX3-E

			220-240V/50H	lz, 220V/60Hz		
	4	3	2	1	Test condition	
	100%	75%	50%	25%	Test condition	
	120	61	29	15		
(m ³ /h)	350	263	175	88		
(L/s)	97	73	49	24		
	1.23	0.84	0.60	0.62	7	
	160	90	40	10	ISO 16494-1: 2022	
Heating	75.0	77.0	79.0	82.0		
Cooling	66.5	71.0	74.0	79.0		
Heating	72.0	74.5	77.5	80.0		
Cooling	60.0	64.5	68.5	74.5		
er of the unit in	30.5	24.5	19.0	17.0	A-weighted sound pressure level	
		5.	.0		EN308: 2022/FS3	
			3	0		
ŀ	(L/s) Heating Cooling Heating	100% 120 (m³/h) 350 (L/s) 97 1.23 160 Heating 75.0 Cooling 66.5 Heating 72.0 Cooling 60.0	100% 75% 120 61 (m³/h) 350 263 (L/s) 97 73 1.23 0.84 160 90 Heating 75.0 77.0 Cooling 66.5 71.0 Heating 72.0 74.5 Cooling 60.0 64.5 r of the unit in 30.5 24.5	4 3 2 100% 75% 50% 120 61 29 (m³/h) 350 263 175 (L/s) 97 73 49 1.23 0.84 0.60 160 90 40 Heating 75.0 77.0 79.0 Cooling 66.5 71.0 74.0 Heating 72.0 74.5 77.5 Cooling 60.0 64.5 68.5 rof the unit in 30.5 24.5 19.0	100% 75% 50% 25% 120 61 29 15 (m³/h) 350 263 175 88 (L/s) 97 73 49 24 1.23 0.84 0.60 0.62 160 90 40 10 Provide 160 90 40 10 Cooling 66.5 71.0 74.0 79.0 Heating 72.0 74.5 77.5 80.0 Cooling 60.0 64.5 68.5 74.5 rd the unit in 30.5 24.5 19.0 17.0	

Characteristic Curves



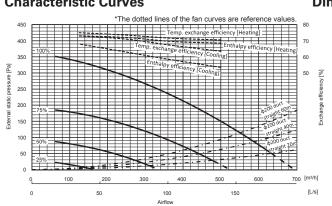
Dimensions

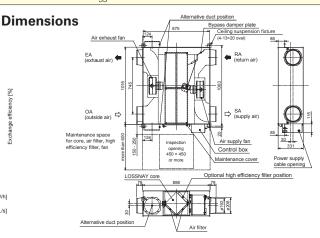


LGH-50RVX3-E

Electrical power supply				220-240V/50H	łz, 220V/60Hz			
Fan speed		4	3	2	1	The second states		
Default airflow setting		100%	75%	50%	25%	Test condition		
Input power (W)		185	81	34	15			
Airflow (m ³ /h)		500	375	250	125			
Airtiow (L/s)		139	104	69	35			
Specific fan power [W/(L/s)]		1.33	1.33 0.78 0.49 0.4		0.43			
External static pressure (Pa)		150	85	38	10	ISO 16494-1: 2022		
Temperature exchange	Heating	70.5	71.5	73.5	75.0			
efficiency (%)	Cooling	63.5	67.0	71.0	73.0			
Enthalpy exchange efficiency (%)	Heating	68.5	69.5	72.0	73.0			
	Cooling	53.5	58.0	63.0	68.0			
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		35.0	27.0	21.0	17.0	A-weighted sound pressure level		
Exhaust air transfer ratio (%)			5	.0		EN308: 2022/FS3		
Weight (kg)		33						

Characteristic Curves



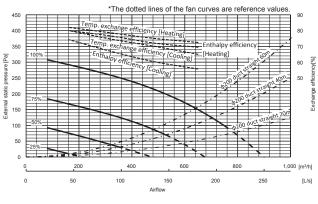


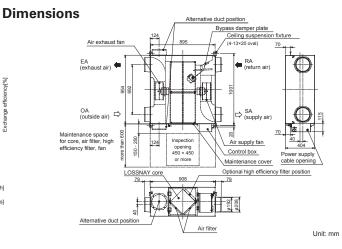
For LGH-RVX3 series
 *The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation.
 *Specifications may be subject to change without notice.

LGH-65RVX3-E

Electrical power supply				220-240V/50H	łz, 220V/60Hz	
Fan speed		4	3	2	1	Test condition
Default airflow setting		100%	75%	50%	25%	Test condition
Input power (W)		245	120	51	20	
Airflow (m ³ /h)		650	488	325	163	
(L/s)		181	135	90	45	EN13053: 2019
Specific fan power [W/(L/s)]		1.36	0.89	0.56	0.44	
External static pressure (Pa)		150	85	38	10	
Temperature exchange	Heating	72.5	75.0	78.5	82.0	
efficiency (%)	Cooling	65.0	70.0	74.5	80.0	
Enthalpy exchange efficiency (%)	Heating	69.5	72.0	76.5	80.0	EN308: 2022
1,7 0 , 7 .	Cooling	55.5	60.0	66.5	74.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		37.5	31.5	24.0	17.5	A-weighted sound pressure level
Exhaust air transfer ratio (%)			5	.0		EN308: 2022/FS3
Weight (kg)				4	1	

Characteristic Curves

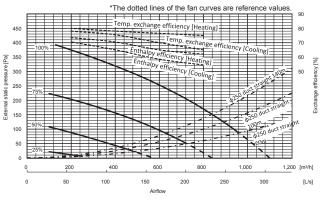




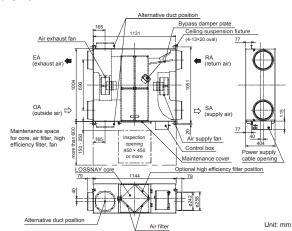
LGH-80RVX3-E

Electrical power supply				220-240V/50H	lz, 220V/60Hz		
Fan speed		4	3	2	1	Test condition	
Default airflow setting		100%	75%	50%	25%	Test condition	
Input power (W)		343	160	64	23		
Airflow (m ³ /h)		800	600	400	200		
(L/s)		222	167	111	56	EN13053: 2019	
Specific fan power [W/(L/s)]		1.54	0.96	0.58	0.41		
External static pressure (Pa)		170	96	43	11		
Temperature exchange	Heating	75.0	76.5	78.0	80.0		
efficiency (%)	Cooling	65.0	70.0	75.5	78.0	EN308: 2022	
Enthalpy exchange efficiency (%)	Heating	62.0	65.0	70.5	73.5	LIN306. 2022	
1, 0 ,	Cooling	54.5	58.5	65.0	70.5		
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		39.0	33.5	25.0	18.0	A-weighted sound pressure level	
Exhaust air transfer ratio (%)			5	.0		EN308: 2022/FS3	
Weight (kg)				4	7		

Characteristic Curves



Dimensions



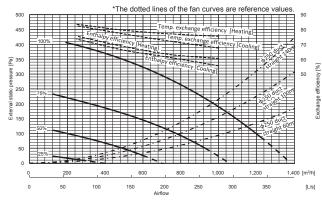
For LGH-RVX3 series *The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation. *Specifications may be subject to change without notice.

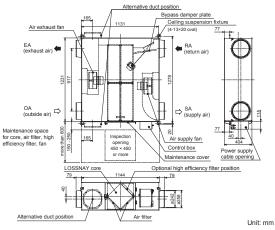
LGH-100RVX3-E

Electrical power supply				220-240V/50H	lz, 220V/60Hz						
Fan speed		4	3	2	1	The second data of					
Default airflow setting		100%	75%	50%	25%	Test condition					
Input power (W)		438	210	83	27						
Airflow	(m ³ /h)	1000	750	500	250						
(L/s)		278	208	139	69	EN13053: 2019					
Specific fan power [W/(L/s)]		1.58	1.01	0.60	0.39						
External static pressure (Pa)		190	107	48	12						
Temperature exchange	Heating	75.5	77.0	79.5	83.5						
efficiency (%)	Cooling	67.5	72.0	77.0	82.5	EN308: 2022					
Enthalpy exchange efficiency (%)	Heating	60.5	63.0	68.5	75.5	EN306. 2022					
	Cooling	55.5	61.0	66.0	73.5						
Noise (dB) (Measured at 1.5m under the centre an anechoic chamber)	er of the unit in	40.0	35.0	27.0	18.5	A-weighted sound pressure level					
Exhaust air transfer ratio (%)			5	.0		EN308: 2022/FS3					
Weight (kg)				5	3						

Characteristic Curves







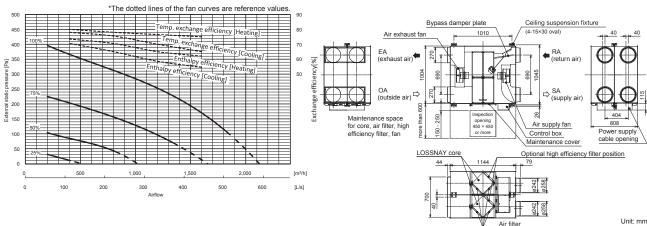
Air filter

LGH-160RVX3-E

Electrical power supply				220-240V/50H	lz, 220V/60Hz		
Fan speed		4	3	2	1	Test condition	
Default airflow setting		100%	75%	50%	25%	Test condition	
Input power (W)		687	324	128	45		
Airflow (m ³ /h)		1600	1200	800	400		
(L/s)		444	333	222	111	EN13053: 2019	
Specific fan power [W/(L/s)]		1.55	0.97	0.58	0.41]	
External static pressure (Pa)		170	96	43	11		
Temperature exchange	Heating	75.0	76.5	78.0	80.0		
efficiency (%)	Cooling	65.0	70.0	75.5	78.0	EN1000 0000	
Enthalpy exchange efficiency (%)	Heating	62.0	65.0	70.5	73.5	EN308: 2022	
.,	Cooling	54.5	58.5	65.0	70.5		
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		41.0	35.0	26.0	18.0	A-weighted sound pressure level	
Exhaust air transfer ratio (%)			5	.0		EN308: 2022/FS3	
Weight (kg)				g	96		

Dimensions

Characteristic Curves



For LGH-RVX3 series *The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation. *Specifications may be subject to change without notice.

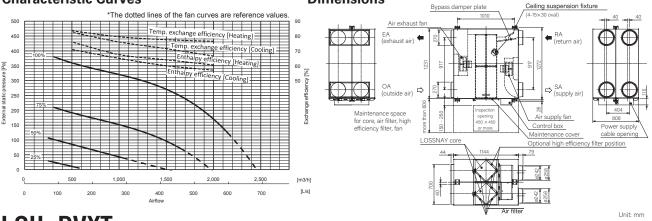
40

LGH-200RVX3-E

Electrical power supply				220-240V/50H	lz, 220V/60Hz	
Fan speed		4	3	2	1	Test condition
Default airflow setting		100%	75%	50%	25%	Test condition
Input power (W)		855	416	163	57	
Airflow (m ³ /h)		2000	1500	1000	500	
(L/s)		556	417	278	139	EN13053: 2019
Specific fan power [W/(L/s)]		1.54	1.00	0.59	0.41	
External static pressure (Pa)		170	96	43	11	
Temperature exchange	Heating	76.5	77.5	79.5	83.5	
efficiency (%)	Cooling	66.5	71.5	76.0	82.5	EN000, 0000
Enthalpy exchange efficiency (%)	Heating	60.5	64.0	67.5	76.0	EN308: 2022
1,7 0 , 7 .	Cooling	57.0	60.0	65.0	71.0	
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		41.5	36.0	27.5	18.0	A-weighted sound pressure level
Exhaust air transfer ratio (%)			5	.0		EN308: 2022/FS3
Weight (kg)				10)8	

Characteristic Curves

Dimensions



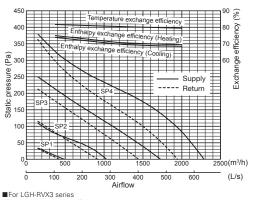
LGH-RVXT SERIES

Specifications

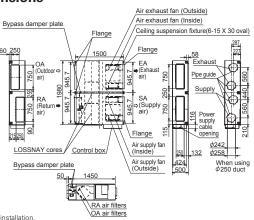
LGH-150RVXT-E

Electrical power supply				2	20-240V/50H	lz, 220V/60H	Ηz		
Ventilation mode		Heat recovery mode Bypass mode							
Fan speed	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)		4.30	2.40	1.10	0.36	3.40	1.80	0.77	0.31
Input power (W)		792	421	176	48	625	334	134	37
Airflow	(m ³ /h)	1500	1125	750	375	1500	1125	750	375
AIIIIOW	(L/s)	417	313	208	104	417	313	208	104
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
External static pressure (r a)	Return	100	56	25	6	100	56	25	6
Temperature exchange efficiency (%)	80	80.5	81	81.5	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	70	71	73	75	-	-	-	-
Cooling		69	70	72	74	-	-	-	-
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		39.5	35.5	29.5	22	39	33	26.5	20.5
Weight (kg)					15	56			

Characteristic Curves



Dimensions



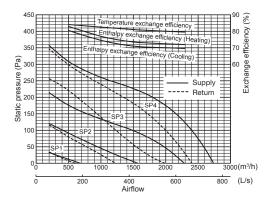
*The input power, the efficiency and the noise are based on the rating air volume, 230V/50Hz and horizontal installation. For LGH-RVXT series

FOR LOTHING Series
*Fibre running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz.
*Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.
*Specifications may be subject to change without notice.

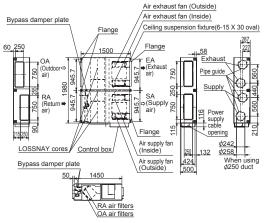
LGH-200RVXT-E

Electrical power supply				2	20-240V/50H	lz, 220V/60H	lz		
Ventilation mode		Heat recovery mode Bypass mode							
Fan speed	SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1	
Running current (A)	5.40	2.70	1.10	0.39	5.00	2.20	0.85	0.34	
Input power (W)		1000	494	197	56	916	407	150	45
Airflow	(m ³ /h)	2000	1500	1000	500	2000	1500	1000	500
Ainow	(L/s)	556	417	278	139	556	417	278	139
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
External static pressure (r a)	Return	100	56	25	6	100	56	25	6
Temperature exchange efficiency (%)	80	81	82.5	84	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	72.5	73.5	77	83	-	-	-	-
Cooling		70	71	74.5	80.5	-	-	-	-
Noise (dB) (Measured at 1.5m under	Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)		35.5	28	22	40.5	34.5	27	20.5
Weight (kg)					1!	59			

Characteristic Curves



Dimensions

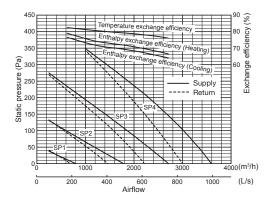


Unit: mm

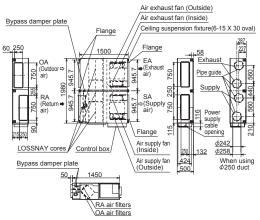
LGH-250RVXT-E

Electrical power supply		220-240V/50Hz, 220V/60Hz							
Ventilation mode			Heat recovery mode Bypass mode						
Fan speed		SP4	SP3	SP2	SP1	SP4	SP3	SP2	SP1
Running current (A)		7.60	3.60	1.40	0.57	6.90	3.10	1.30	0.49
Input power (W)	Input power (W)			244	82	1298	587	212	69
Airflow	(m ³ /h)	2500	1875	1250	625	2500	1875	1250	625
Aimow	(L/s)	694	521	347	174	694	521	347	174
External static pressure (Pa)	Supply	175	98	44	11	175	98	44	11
External static pressure (Fa)	Return	100	56	25	6	100	56	25	6
Temperature exchange efficiency (%)	77	79	80.5	82.5	-	-	-	-
Enthalpy exchange efficiency (%)	Heating	68	71.5	74	79	-	-	-	-
Entitalpy excitatinge entitiency (78)	Cooling	65.5	69	71.5	76.5	-	-	-	-
Noise (dB) (Measured at 1.5m under the center of the unit in an anechoic chamber)			39	32	24	44	38.5	31	22.5
Weight (kg)		198							

Characteristic Curves



Dimensions



Unit: mm

For LGH-RVXT series
 *The running current, the input power, the efficiency and the noise are based on the rated airflow, 230V/50Hz.
 *Figures in the chart is measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.
 *Specifications may be subject to change without notice.

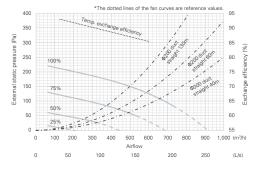
LGH-RVS SERIES

Specifications

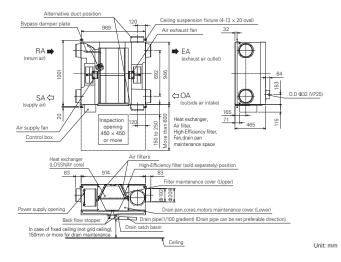
LGH-50RVS-E

Weight		55kg (67kg with maximum drain water)						
Electrical power supply		220-240V/50Hz, 220V/60Hz						
Fan speed		100%	75%	50%	25%	Test condition		
Input power (W)	t power (W) 190 110 60 25							
Airflow	(m ³ /h) 500 375 250 125							
AITIOW	(L/s)	139	104	69	35	ISO 16494		
Specific fan power [W/(L/s)]	1.37	1.06	0.86	0.72	Temp. exchange efficiency is winter condition		
External static pressure	Pa)	150	84	38	9			
Temperature exchange e	fficiency (%)	87.0	89.0	91.0	93.0			
Noise (dB)		33.0	27.0	22.0	18.0	A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber		
Exhaust air transfer ratio (%)		5				Tracer gas method @100% airflow (EN308)		

Characteristic Curves



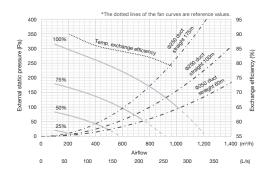
Dimensions



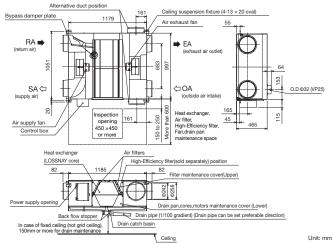
LGH-80RVS-E

Weight						63kg (77kg with maximum drain water)		
Electrical power supply	(220-240V/50Hz, 220V/60Hz						
Fan speed		100%	75%	50%	25%	Test condition		
Input power (W)		325	175	85	32			
(m ³ /h)	800	600	400	200				
Airflow (L/s)		222	167	111	56	ISO 16494		
Specific fan power [W/	(L/s)]	1.46	1.05	0.77	0.58	Temp. exchange efficiency is winter condition		
External static pressu	ıre (Pa)	170	96	43	11			
Temperature exchang	Temperature exchange efficiency (%)		84.0	86.0	90.0			
Noise (dB)		36.0	30.0	25.0	18.0	A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber		
Exhaust air transfer ratio (%)			5			Tracer gas method @100% airflow (EN308)		

Characteristic Curves



Dimensions



The input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20°C/WB15°C and

outdoor DB 5°C/WB3°C. It is measured according to ISO16494. When the indoor humidity is low and condensation in the heat exchanger does not occur, the exchange efficiency may be decreased in winter. The absolute humidity of RA shall be lower than 0.0139kg/kg (DA) in winter and relative humidity of RA shall be lower than 90% RH through the year. Example of the absolute humidity 0.0139kg/kg (DA) are 20.7°C 90% RH, 25°C 70%, 30°C 50% etc.

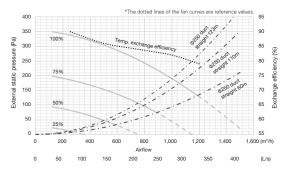
Specifications may be subject to change without notice.

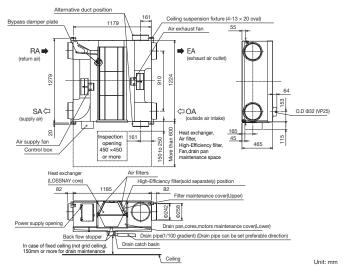
LGH-100RVS-E

Weight	Weight					73kg (89kg with maximum drain water)		
Electrical power supply				220-240V/50Hz, 220V/60Hz				
Fan speed		100%	75%	50%	25%	Test condition		
Input power (W)		445 225 100 35						
(m ³ /h)		1000	750	500	250			
Airflow	(L/s)	278	208	139	69	ISO 16494		
Specific fan power [W/(L/s	5)]	1.60	1.08	0.72	0.50	Temp. exchange efficiency is winter condition		
External static pressure	(Pa)	190	107	48	12			
Temperature exchange e	efficiency (%)	82.0	84.0	86.0	90.0			
Noise (dB)		37.0	32.0	24.0	18.0	A-weighted sound pressure level @1.5m off from the center of the unit in an anechoic chamber		
Exhaust air transfer ratio (%)			5			Tracer gas method @100% airflow (EN308)		

Characteristic Curves

Dimensions





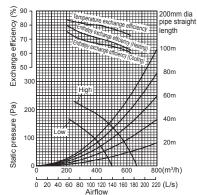
The input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20°C/WB15°C and outdoor DB 5°C/WB3°C. It is measured according to ISO16494.
 When the indoor humidity is low and condensation in the heat exchanger does not occur, the exchange efficiency may be decreased in winter.
 The absolute humidity of RA shall be lower than 0.0139kg/kg (DA) in winter and relative humidity of RA shall be lower than 90%RH through the year.
 Example of the absolute humidity 0.0139kg/kg (DA) are 20.7°C 90%RH, 25°C 70%, 30°C 50% etc.
 Specifications may be subject to change without notice.

GUF series **Specifications**

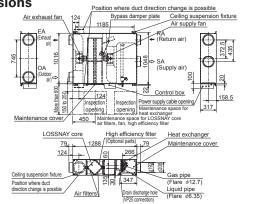
GUF-50RD4

Electrical power supply				220-240)V/50Hz			
Ventilation mode			Heat recovery mode Bypass mode					
Fan speed			High Low High Low					
Running current (A)			1.15	0.70	1.15	0.70		
Input power (W)			235-265	150-165	235-265	150-165		
A C	, (m ³ /h)		500	400	500	400		
Airflow		(L/s)	139	111	139	111		
External static pressure (Pa)	ı)		140	90	140	90		
Temperature exchange efficiency (%)			77.5	80	-	-		
E 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Heating	68	71	-	-		
Enthalpy exchange efficience	Су (%)	Cooling	65	67	-	-		
Cooling capacity (kW)			5.57 (1.94)					
Heating capacity (kW)			6.21 (2.04)					
Capacity equivalent to the ir	indoor unit			P	32			
Hum	nidifying			-	-			
Humidifier Hum	nidifying cap	acity (kg/h)		-	-			
Water supply pressure		essure		-	-			
Noise (dB) (Measured at	1.5m unde	r the center of the unit in an anechoic chamber)	33.5-34.5	29.5-30.5	35-36	29.5-30.5		
Weight (kg)			48					

Characteristic Curves



Dimensions

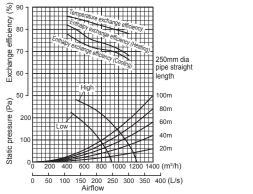


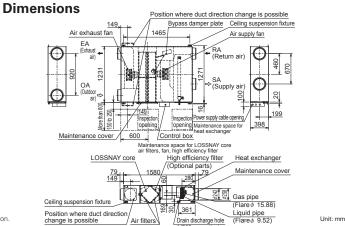
Unit: mm

GUF-100RD4

Electrical power supp	olv			220-240)V/50Hz			
Ventilation mode	. ,		Heat recovery mode Bypass mode			s mode		
Fan speed			High	Low	High	Low		
Running current (A)	Running current (A)			1.73	2.25	1.77		
Input power (W)			480-505	370-395	490-515	385-410		
Airflow		(m ³ /h)	1000	800	1000	800		
AITIOW		(L/s)	278	222	278	222		
External static pressu	ure (Pa)		140	90	140	90		
Temperature exchang	Temperature exchange efficiency (%)			81.5	-	-		
Enthalpy exchange e	fficionay (%)	Heating	71	74	-	-		
Entralpy exchange e	Inciency (76)	Cooling	69	71	-	-		
Cooling capacity (kW)		11.44 (4.12)					
Heating capacity (kW	/)		12.56 (4.26)					
Capacity equivalent t	o the indoor unit		P63					
	Humidifying			-	-			
Humidifier	Humidifying cap	acity (kg/h)		-	-			
	Water supply pressure			-	-			
Noise (dB) (Measu	red at 1.5m unde	er the center of the unit in an anechoic chamber)	38-39	34-35	38-39	35-36		
Weight (kg)			82					

Characteristic Curves





For GUF series

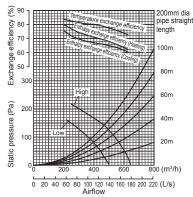
■For GUF series
Position where duct direction Cooling: Indoor: 27°C DB/19°C WB Outdoor: 35°C DB/24°C WB
Heating: Indoor: 27°C DB/13°C WB Outdoor: 7°C DB/5°C WB
Heating: Indoor: 27°C DB/13°C WB Outdoor: 7°C DB/5°C WB
The figures in (1) indicates hear recoverying capacity of heat exchange core.
*Figures in the chart are measured according to Japan Industrial Standard (JIS B 8628). Characteristic Curves are measured by chamber method.
*When the total capacity of indoor units connected to 1 outdoor units (PUHY or PURY) exceeds the capacity of the total unit, the total capacity of GUF needs to be 30% and less of the connected outdoor units connected to 1 outdoor units.
*Specifications may be subject to change without notice.



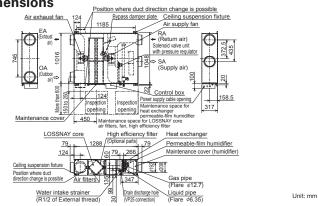


Electrical power suppl	ly			220-240	0V/50Hz		
Ventilation mode			Heat recovery mode Bypass mode				
Fan speed			High Low High Low				
Running current (A)			1.15 0.70 1.15 0.70				
Input power (W)			235-265	150-165	235-265	150-165	
Airflow		(m ³ /h)	500	400	500	400	
AITIOW		(L/s)	139	111	139	111	
External static pressur	re (Pa)		125	80	125 80		
Temperature exchange	e efficiency (%)		77.5	80	-	-	
Enthalpy exchange eff	ficionov (9/)	Heating	68	71	-	-	
Enthalpy exchange en	liciency (%)	Cooling	65	67	-	-	
Cooling capacity (kW)				5.57	(1.94)		
Heating capacity (kW)				6.21	(2.04)		
Capacity equivalent to	the indoor unit			PC	32		
	Humidifying		Permeable film humidifier				
Humidifier	Humidifying cap	acity (kg/h)		2.7 (he	eating)		
	Water supply pr	essure	Minimum	pressure : 2.0×10^4 Pa	Maximum pressure : 49.	0×10^4 Pa	
Noise (dB) (Measure	ed at 1.5m unde	r the center of the unit in an anechoic chamber)	33.5-34.5	29.5-30.5	35-36	29.5-30.5	
Weight (kg)			51 (filled with water 55)				

Characteristic Curves



Dimensions

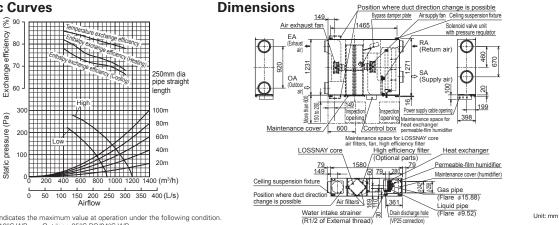


GUF-100RDH4

Small stock

Electrical power sup	pply			220-240	0V/50Hz			
Ventilation mode			Heat recovery mode Bypas:			s mode		
Fan speed	an speed			Low	High	Low		
Running current (A)	Running current (A)			1.76	2.25	1.77		
Input power (W)	Input power (W)			385-400	490-515	385-410		
Airflow	(m ³ /h)		1000	800	1000	800		
AITTOW		(L/s)	278	222	278	222		
External static press	sure (Pa)		135	86	135	86		
Temperature exchange efficiency (%)			79.5	81.5	-	-		
Enthalpy exchange	officionov (9/)	Heating	71	74	-	-		
Entralpy exchange	efficiency (76)	Cooling	69	71	-	-		
Cooling capacity (kV	√)		11.44 (4.12)					
Heating capacity (k)	N)		12.56 (4.26)					
Capacity equivalent	to the indoor unit			P6	33			
	Humidifying			Permeable fil	m humidifier			
Humidifier	Humidifying cap	bacity (kg/h)		5.4 (he	eating)			
	Water supply pr	ressure	Minimum	pressure : 2.0×10^4 Pa	Maximum pressure : 49.0	0 × 10 ⁴ Pa		
Noise (dB) (Meas	ured at 1.5m unde	er the center of the unit in an anechoic chamber)	38-39	34-35	38-39	35-36		
Weight (kg)			88 (filled with water 96)					

Characteristic Curves



For GUF series

For GUF series

Vater intake strainer

Water intake strainer

Water

CONTROL TECHNOLOGIES

PZ-62DR-EA/EB	PZ-43SMF-E	Language	-EA	-EB
		English		
A KERRE LOUVE		German		
Constant 12:00 Surg	Arme	Spanish		
the sk O (2007) so β Androon Simon Sin Sin Sin Sin Sin Sin Sin Sin Sin Si		French		
55" = :300 100 1000 cm		Italian		
	≫ 	Russian		
	TIMER FLITER	Portuguese		
		Swedish		
		Dutch		
. 120		Turkish		
		Polish		
		Greek		
		Czech		
		Hungarian		
		Slovenian		
		Bulgarian		
		Danish		

Unit (mm)

• Danish

Compatibility Table

Unit (mm)

	Remote Controller Co	ompatibility Table		
Model name	PZ-62DR-6	EA/EB	PZ-43SMF-E	
Compatible series	LGH-RVX3/RVS	LGH-RVXT	LGH-RVX3/RVXT/RVS	
Fan speed selection	4 fan speeds and Auto (Auto is available when using a CO2 sensor)	4 fan speeds	2 of 4 fan speeds	
Control with a CO2 sensor (Mitsubishi Electric)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO ₂ concentration*)	No	No	
Control with a CO2 sensor (field supply)	Yes Yes (Fan speed automatically changes from 25% to 100% depending on the CO2 concentration*) (Fan speed automatically changes between 4 levels depending on the CO2 concentration)		No	
Ventilation mode selection	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto	
Night purge	Yes	Yes	No	
Function setting from remote controller	Yes	Yes	No	
Bypass temp. free setting	Yes	Yes (Set in Function setting menu)	No	
Flexible airflow setting	Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	No	No	
ON/OFF timer	Yes	Yes	Yes	
Auto-off timer	Yes	Yes	No	
Weekly timer	Yes	Yes	No	
Fan speed timer	Yes	Yes	No	
Operation restrictions (ON/OFF, ventilation mode, fan speed)	Yes	Yes	No	
Operation restrictions (fan speed skip setting)	Yes	Yes	No	
Screen contrast adjustment	Yes	Yes	No	
Language selection	Yes (17 languages)	Yes (17 languages)	No (English only)	
CO ₂ concentration indication	Yes (available when using a Mitsubishi Electric CO ₂ sensor)	No	No	
Filter cleaning sign	Yes (Maintenance interval can be changed)	Yes	Yes	
LOSSNAY core cleaning sign	Yes/No (RVS series)	Yes	No	
Error indication	Yes (Displays model name, serial number, contact information)	Yes (Displays model name, serial number, contact information)	Yes	
Error history	Yes	Yes	No	
OA/RA/SA temp. display	Yes	Yes	No	

*When using a CO2 sensor. Upper and lower limits may differ

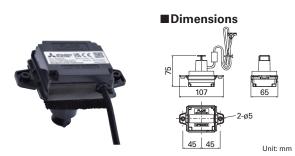
CO₂ Sensors

A CO2 Sensor connected directly to a LOSSNAY RVX3 and RVS unit optimizes the fan speed according to the detected CO2 level.

Duct-mounted type

PZ-70CSD-E

Equipped to the duct with all wiring hideen in the ceiling.



Vertical Installation Plate

PZ-1VS-E, PZ-2VS-E

Parts needed to install RVX3 vertically.

■Dimensions

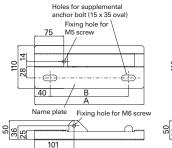
				01111
	А	В	Weight (kg)	Applicable model
PZ-1VS-E	280	200	1.2	LGH15 to 50RVX3-E
PZ-2VS-E	380	300	1.6	LGH65 to 100RVX3-E



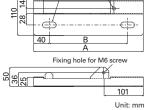
75

EA side plate

RA side plate



Holes for supplemental anchor bolt (15 x 35 oval) Fixing hole for M5 screw

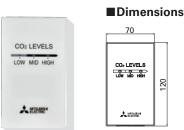


Unit[,] mm

Wall-mounted type

PZ-70CSW-E

Installed on the wall. CO2 Level can be monitored in 3 levels.





Unit: mm

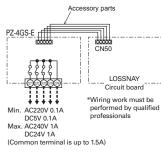
Signal Output Terminal

PZ-4GS-E

PCB of RVX3 and RVS has only 1 output terminal. By using PZ-4GS-E, it allows to add 4 more output terminals can be added to RVX3 and RVS.



■Wiring diagram

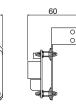


Dimensions

โก

53

86

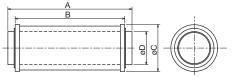


Unit: mm

Duct Silencer

The duct silencer connects to the LOSSNAY unit to reduce airflow noise. Four sizes are available to cover a wide range of duct sizes.

Dimensions



						0
Model	А	В	С	D	Connecting duct	Weight (kg)
PZ-100SS-E	450	400	152	99	ø100	1.9
PZ-150SS-E	560	500	202	149	ø150	3.5
PZ-200SS-E	660	600	252	199	ø200	5.3
PZ-250SS-E	660	600	332	249	ø250	8.9

Specifications

<u> </u>													
Model	Airflow	Attenua	tion of so	ound pow	er level [dB] for cer	nter frequ	ency (dis	charge)				
woder	[m ³ /h]	62.5Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz				
PZ-100SS-E	50	0	3	5	7	6	6	6	8				
FZ-10033-E	150	0	3	6	7	7	7	7	9				
PZ-150SS-E	250	0	1	5	8	15	21	20	14				
PZ-15055-E	350	0	1	4	8	14	21	21	16				
PZ-200SS-E	500	0	1	4	7	13	18	16	9				
FZ-20033-E	650	0	1	3	8	12	17	14	6				
PZ-250SS-E	800	0	2	4	12	22	21	14	13				
FZ-20055-E	1000	0	1	4	12	22	20	14	13				

1. Figures on the chart above are based on the comparison with a general steel duct of the same length.

The silencer is placed on just before the outlet during the measurement.
 When the airflow rate differs, the insertion loss is also different from the chart above.
 Figures on the chart above are flat (No-weighted) values.

Lineup and Classification

LC	DSSNAY			-	Filter				
						Classification			
Model	Fil	ter	Name	Model	Material		EN 779:		
	Standard Setting	Optional Setting				ISO 16890: 2016	2012		
	•		Replacement filter (Coarse 60% filter)	PZ-**RF3-E	Non-woven fabric	Coarse 60%	-		
		•	Advanced high-efficiency filter (ePM1 75% filter)	PZ-**RFP3-E	Synthetic fiber	ePM1 75%, ePM2.5 80%, ePM10 95%	-		
LGH-RVX3 Series		•*1	High-efficiency filter (M6 filter)	PZ-**RFM3-E	Synthetic fiber	-	M6		
LGH-RVX3 Series		•*1	Advanced high-efficiency filter (F8 filter)	PZ-**RFH3-E	Synthetic fiber	-	F8		
	•		Replacement filter (Coarse 50% filter)	PZ-**RTF-E	Non-woven fabric	Coarse 50%	G3		
		•	Advanced high-efficiency filter (M6 filter)	PZ-M6RTFM-E	Non-woven fabric	ePM10 75%	M6		
		•	Advanced high-efficiency filter (F8 filter)	PZ-F8RTFM-E	Non-woven fabric	ePM1 65%	F8		
LGH-RVXT Series		•*1	Advanced high-efficiency filter (M6 filter)	PZ-M6TDF-E	Non-woven fabric	-	M6		
		•*1	Advanced high-efficiency filter (F8 filter)	PZ-F8TDF-E	Non-woven fabric	-	F8		
	•		Replacement filter (Coarse 50% filter)	PZ-S**RF-E	Non-woven fabric	Coarse 50%	G3		
		•	High-efficiency filter (ePM10 80% filter)	PZ-S**RFM-E	Synthetic fiber	ePM10 80%	M6		
LGH-RVS Series		•	Advanced high-efficiency filter (ePM1 65% filter)	PZ-S**RFH-E	Synthetic fiber	ePM1 65%, ePM2.5 75%, ePM10 90%	F8		
	•		Replacement filter (Coarse 35%filter)	PZ-**RF8-E	Non-woven fabric	Coarse 35%	G3		
		•	High-efficiency filter (ePM10 75%)	PZ-**RFM-E	Noncombustible fiber	ePM10 75%	-		
GUF Series		•	Advanced high-efficiency filter (ePM1 75%)	PZ-**RFP2-E	Synthetic fiber	ePM1 75%, ePM2.5 80%, ePM10 95%	-		

*1: Designed for Spanish market to apply RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVX3 Series

	Filter								Installation location						
lman	Madal		Din	nension (r	nm)	Pieces in	1	Package number for		N	umbers	s of filte	ers		
Image	Model	Applicable model	L	W	Н	one pakage		replacement			OA	RA	SA		
Replacement filter	PZ-15RF3-E	LGH-15RVX3-E	549	125	20	2	1	1		2	1	1	-		
(Coarse 60% filter)	PZ-25RF3-E	LGH-25RVX3-E	654	151	15	2	1	1	1	2	1	1	-		
	PZ-35RF3-E	LGH-35RVX3-E	784	178	15	2	1	1	1	2	1	1	-		
	PZ-50RF3-E	LGH-50RVX3-E	926	178	15	2	1	1		2	1	1	-		
	PZ-65RF3-E	LGH-65RVX3-E	852	213	15	2	1	1	1	2	1	1	-		
	D7 00050 5	LGH-80RVX3-E			45			1		2	1	1	-		
	PZ-80RF3-E	LGH-160RVX3-E	890	238	15	2		2		4	2	2	-		
		LGH-100RVX3-E				-	1	1		2	1	1	-		
	PZ-100RF3-E	LGH-200RVX3-E	1117	238	15	2		2	1	4	2	2	-		
Advanced high-efficiency filter	PZ-15RFP3-E	LGH-15RVX3-E	542	104.5	25	1	1	1	1	1	-	-	1		
(ePM1 75% filter)	PZ-25RFP3-E	LGH-25RVX3-E	322	128.5	25	2	1	1	ĺ	2	-	-	2		
	PZ-35RFP3-E	LGH-35RVX3-E	390	158.5	25	2	1	1		2	-	-	2		
	PZ-50RFP3-E	LGH-50RVX3-E	461	158.5	25	2	1	1	ĺ	2	-	-	2		
	PZ-65RFP3-E	LGH-65RVX3-E	423	197.5	25	2	1	1	ĺ	2	-	-	2		
		LGH-80RVX3-E				_	1	1		2	-	-	2		
	PZ-80RFP3-E	LGH-160RVX3-E	442	215.5	25	2		2		4	-	-	4		
~		LGH-100RVX3-E						1		2	-	-	2		
	PZ-100RFP3-E	LGH-200RVX3-E	554	215.5	25	2		2		4	-	-	4		
High-efficiency filter*2	PZ-15RFM3-E	LGH-15RVX3-E	542	125	13	1	1	1	ĺ	1	1	-	-		
(M6 filter)	PZ-25RFM3-E	LGH-25RVX3-E	322	151	13	2	1	1		2	2	-	-		
	PZ-35RFM3-E	LGH-35RVX3-E	390	178	13	2	1	1		2	2	-	-		
	PZ-50RFM3-E	LGH-50RVX3-E	461	178	13	2	1	1	ĺ	2	2	-	-		
	PZ-65RFM3-E	LGH-65RVX3-E	423	213	13	2	1	1		2	2	-	-		
		LGH-80RVX3-E				-	1	1		2	2	-	-		
	PZ-80RFM3-E	LGH-160RVX3-E	442	238	13	2		2	ĺ	4	4	-	-		
\sim		LGH-100RVX3-E				-	1	1		2	2	-	-		
	PZ-100RFM3-E	LGH-200RVX3-E	554	238	13	2		2		4	4	-	-		
Advanced high-efficiency filter*2	PZ-15RFH3-E	LGH-15RVX3-E	542	104.5	25	1	1	1		1	-	-	1		
(F8 filter)	PZ-25RFH3-E	LGH-25RVX3-E	322	128.5	25	2	1	1	1	2	-	-	2		
	PZ-35RFH3-E	LGH-35RVX3-E	390	158.5	25	2	1	1		2	-	-	2		
	PZ-50RFH3-E	LGH-50RVX3-E	461	158.5	25	2	1	1	1	2	-	-	2		
	PZ-65RFH3-E	LGH-65RVX3-E	423	197.5	25	2	1	1		2	-	-	2		
		LGH-80RVX3-E		045.5	0.5		1	1		2	-	-	2		
	PZ-80RFH3-E	LGH-160RVX3-E	442	215.5	25	2		2	1	4	-	-	4		
		LGH-100RVX3-E		045.5	0.5		1	1		2	-	-	2		
	PZ-100RFH3-E	LGH-200RVX3-E	554	215.5	5 25	2		2		4	_	-	4		

*2: Designed for Spanish market to apply RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVXT Series

		Filter					Package	Package			Installation location				
Image	Model		Dim	nension (r	nm)	Pieces in	number for		N	umbers	of filte	rs			
inage	IVIOUEI	Applicable model	L	W	Н	one pakage	replacement			ОА	RA	SA			
Replacement filter	PZ-150RTF-E	LGH-150RVXT-E	655	290	-	2	1		4	2	-	-			
(Coarse 50% filter)	FZ-150N1F-E		655	250	-	2	1		4	-	2	-			
	PZ-250RTF-E	LGH-200RVXT-E,	985	290	-	2	1		4	2	-	-			
	FZ-250h1F-E	LGH-250RVXT-E	985	250	-	2	1		4	-	2	-			
Advanced high-efficiency filter (M6 filter)	PZ-M6RTFM-E	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	659	223	65	3	1		3	-	-	3			
Advanced high-efficiency filter (F8 filter)	PZ-F8RTFM-E	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	659	223	65	3	1	•	3	_	_	3			
Advanced high-efficiency filter*3 (M6 filter)	PZ-M6TDF-E	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	659	223	27	3	1		3	-	_	3			
Advanced high-efficiency filter*3 (F8 filter)	PZ-F8TDF-E	LGH-150RVXT-E, LGH-200RVXT-E, LGH-250RVXT-E	659	223	27	3	1		3	-	_	3			

*3: Designed for Spanish market to apply RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVS Series

		Filter					
Image	Model		Din	nension (r	nm)	Pieces in	
image	Iviouei	Applicable model	L	W	Н	one pakage	
Replacement filter (Coarse 50% filter)	PZ-S50RF-E	LGH-50RVS-E	845	195	15	2	
(coarse 50 /a filter)	PZ-S80RF-E	LGH-80RVS-E	885	195	15	2	
	PZ-S100RF-E	LGH-100RVS-E	1112	195	15	2	
High-efficiency filter (ePM10 80% filter)	PZ-S50RFM-E	LGH-50RVS-E	422	195	15	2	
(erwite 80 % litter)	PZ-S80RFM-E	LGH-80RVS-E	442	195	15	2	
	PZ-S100RFM-E	LGH-100RVS-E	556	195	15	2	
Advanced high-efficiency filter (ePM1 65% filter)	PZ-S50RFH-E	LGH-50RVS-E	412	203	25	2	
(er wir 65 % linter)	PZ-S80RFH-E	LGH-80RVS-E	432	203	25	2	
	PZ-S100RFH-E	LGH-100RVS-E	546	203	25	2	

Package	Ins	stallatio	n locati	on
number for	N	umbers	of filte	rs
replacement		OA	RA	SA
1	2	1	1	-
1	2	1	1	-
1	2	1	1	-
1	2	2	-	-
1	2	2	-	-
1	2	2	-	-
1	2	2	-	-
1	2	2	-	-
1	2	2	-	-

For GUF Series

	-	Filter]	Package	Installation location					
Imaga	Model		Dimension (mm) Pieces in			1	number for	N	umbers	of filte	rs			
Image	woder	Applicable model	L	W	Н	one pakage		replacement		OA	RA	SA		
Replacement filter (Coarse 35% filter)	PZ-50RF8-E	GUF-50RD4 GUF-50RDH4	470	183	15	4		1	4	2	2	-		
	PZ-100RF8-E	GUF-100RD4 GUF-100RDH4	565	243	15	4		1	4	2	2	-		
High-efficiency filter (ePM10 75% filter)	PZ-50RFM-E	GUF-50RD4 GUF-50RDH4	464	175	25	2		1	2	-	-	2		
	PZ-100RFM-E	GUF-100RD4 GUF-100RDH4	559	236	25	2		1	2	-	-	2		
	PZ-50FRP2-E	GUF-50RD4 GUF-50RDH4	464	175	25	2		1	2	-	-	2		
	PZ-100FRP2-E	GUF-100RD4 GUF-100RDH4	559	236	25	2		1	2	-	-	2		

*Specifications may be subject to change without notice.

VL-CZPVU SERIES

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

VL-250CZPVU-R/L-E VL-350CZPVU-R/L-E VL-500CZPVU-R/L-E

Key Features



Quiet Operation

Noise is one of the most common concerns for residential ventilation. Ultra quiet operation is achieved with the sirocco fan designed by Mitsubishi Electric. The balance between airflow and static pressure is optimized and the fan rotation is minimized, leading to low noise levels.

Air Purification

An optional filter removes NOx and PM2.5 and improves indoor air quality. They can be incorporated inside the unit without any filter box, which saves space.

*NOx: Nitrogen oxide, which includes nitric oxide (NO) and nitrogen dioxide (NO2). *PM2.5: Airborne particulates that are 2.5µm or smaller in size.

Wi-Fi Control

MELCloud is a Cloud-based solution for controlling LOSSNAY units either locally or remotely by computer, tablet or smartphone via the Internet. It allows LOSSNAY operations to be checked and controlled via MELCloud from virtually anywhere and Internet connection is available. With MELCloud, the LOSSNAY system can be used much more easily and conveniently.

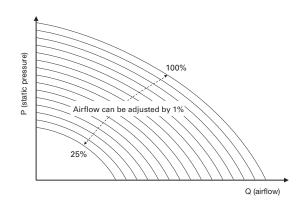
Energy Efficiency

Under regulation (EU) No. 1254/2014, the VL-CZPVU series has the highest energy-saving performance in its class (ErP A⁺). It saves heating and cooling costs by minimizing the energy loss that occurs during ventilation.

ErP A⁺ A⁺

Variable Airflow Control

The default fan speed value (Fan speed 1: 30%, Fan speed 2: 50%, Fan speed 3: 70%, and Fan speed 4: 100%) of both supply air and exhaust air can be adjusted flexibly. Within the range between 25% and 100%, airflow can be adjusted by 1% increments to satisfactorily meet the designed airflow rate.





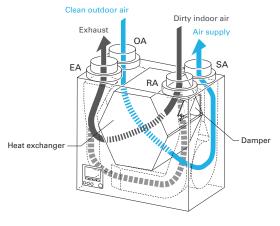
External Airflow Control

The airflow from the LOSSNAY unit can be altered using 0-10V signals from the controllers, such as the humidity stat and CO₂ sensor (field supply). The LOSSNAY unit is also connected to the light switch which can boost operation mode (input 220-240V). These devices are connected directly to the LOSSNAY unit, allowing automatic fan speed control according to bathroom occupation, CO₂ level, and humidity level.



Automatic Bypass Mode

It is possible to switch between "LOSSNAY ventilation (with heat exchange)" and "Bypass ventilation (without heat exchange)" either manually or automatically. When outside air is cooler than indoor air in summer, the unit directly draws in outside air, bypassing the heat exchanger.



* The figure shows VL-350CZPVU-L-E

Wide Operating Temperature

The VL-CZPVU series can operate at temperatures down to -15°C. With a pre-heater, it can operate at temperatures down to -25°C. * In areas where outdoor air falls below -20°C, an electric shutter (locally supplied) is required in the OA duct in addition to the pre-heater.

* The OA temperature must be higher than -15°C to use the pre-heater.

MELCloud for LOSSNAY

MELCloud enables fast, easy remote control and monitoring of LOSSNAY units. Wireless computer connectivity and an Internet-connected mobile or fixed terminal are all that are needed. MELCloud can also be used to control room air conditioners and Ecodan heat pumps simultaneously.

Key control and monitoring features

- 1. Turn system on/off
- 2. Switching airflow & operating mode (Heat recovery / Bypass)
- 3. Confirming the status of the filter/core (Maintenance notification)



VL-CZPVU SERIES

Specifications

VL-250CZPVU-R/L-E

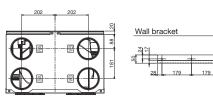
		220-240V/50H	z, 220V-/60Hz				
		Heat recov	very mode				
	FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)			
	0.76	0.35	0.20	0.12			
Input power (W)			23	11			
(m ³ /h)	250	175	125	75			
(L/s)	69	49	35	21			
)	150	150 74 38					
iency (%)	85	87	88	90			
	31	22	16	15 >			
		A	.+				
	26						
	(H) 565 x (W) 595 x (D) 356						
	<u> </u>	0.76 106 (m³/h) 250 (L/s) 69 150 iency (%) 85	FS4 (100%) FS3 (70%) 0.76 0.35 106 44 (m³/h) 250 175 (L/s) 69 49 150 74 iency (%) 85 87 31 22 A 2	0.76 0.35 0.20 106 44 23 (m³/h) 250 175 125 (L/s) 69 49 35 1150 74 38 iency (%) 85 87 88 31 22 16 A+ 26			

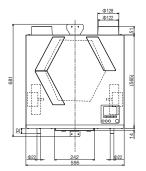
Attention

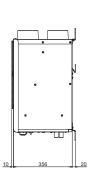
Attention
 The above values are at factory default.
 The above values are at factory default.
 The running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
 The sound pressure level at 3m is spherical.
 Temperature exchange efficiency (%) is based on winter condition.
 Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.
 Specifications may be subject to change without notice.

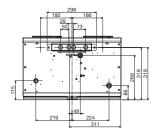
Dimensions

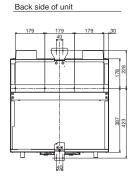
VL-250CZPVU-R-E









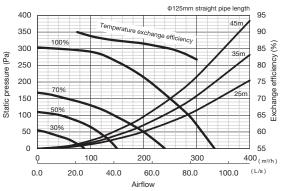


Unit: mm

15

179

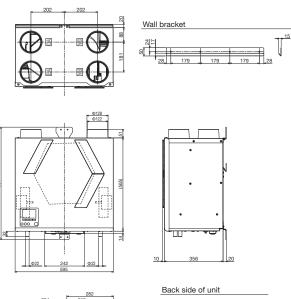
Characteristic Curves

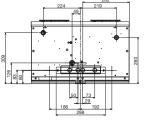


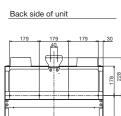
Attention

Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

VL-250CZPVU-L-E







Unit: mm

87

VL-350CZPVU-R/L-E

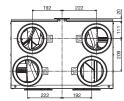
Electrical power supply			220-240V/50H	z, 220V-/60Hz					
Ventilation mode		Heat recovery mode							
Fan speed		FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)				
Running current (A)		1.08	0.52	0.31	0.18				
Input power (W)	155	71	37	19					
Airflow	(m³/h)	320	224	160	96				
AITIOW	(L/s)	89	62	44	27				
External static pressure (Pa)		150	74	38	14				
Temperature exchange effic	iency (%)	85	87	88	90				
Noise level (dB)		35	26	19	15>				
Energy efficiency class		A+							
Weight (kg)		32							
Dimensions (mm)		(H) 623 × (W) 658 × (D) 432							

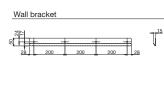
Attention

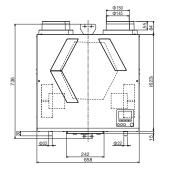
Attention
 The above values are at factory default.
 The above values are at factory default.
 The nunning current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
 The sound pressure level at 3m is spherical.
 Temperature exchange efficiency (%) is based on winter condition.
 Misubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are
 measured by chamber method.
 Specifications may be subject to change without notice.

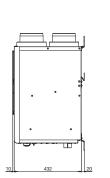
Dimensions

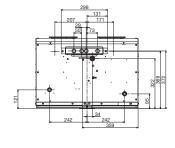
VL-350CZPVU-R-E

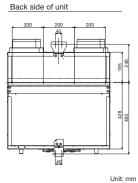




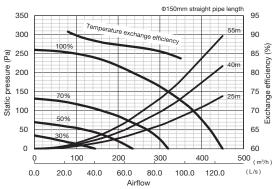








Characteristic Curves

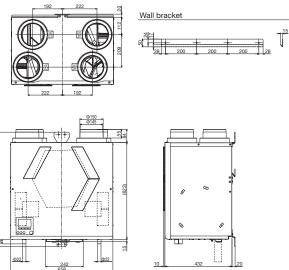


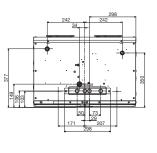
Attention

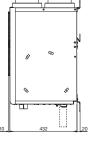
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

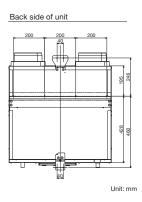
VL-350CZPVU-L-E

8









VL-500CZPVU-R/L-E

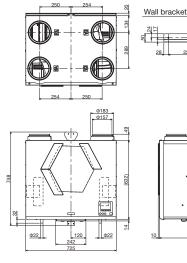
Electrical power supply			220-240V/50H	z, 220V-/60Hz					
Ventilation mode		Heat recovery mode							
Fan speed		FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)				
Running current (A)		1.73	0.77	0.40	0.19				
Input power (W)	275	104	49	21					
A: ()	(m ³ /h)	500	350	250	150				
Airflow	(L/s)	139	97	69	42				
External static pressure (Pa))	200	98	50	18				
Temperature exchange effic	iency (%)	85	87	89	92				
Noise level (dB)		37	29	22	15>				
Energy efficiency class			A	.+					
Weight (kg)		39							
Dimensions (mm)		(H) 632 × (W) 725 × (D) 556							

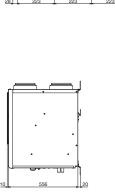
Attention

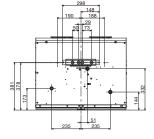
Attention
 The above values are at factory default.
 The above values are at factory default.
 The running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
 The sound pressure level at 3m is spherical.
 Temperature exchange efficiency (%) is based on winter condition.
 Misubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.
 Specifications may be subject to change without notice.

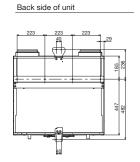
Dimensions

VL-500CZPVU-R-E

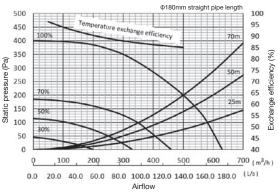










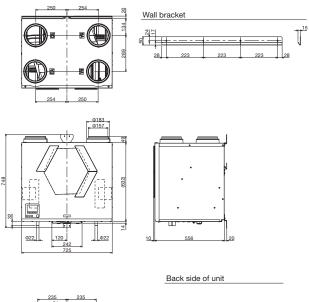


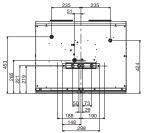
Attention

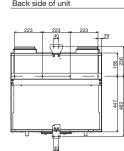
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

VL-500CZPVU-L-E

T¹⁵







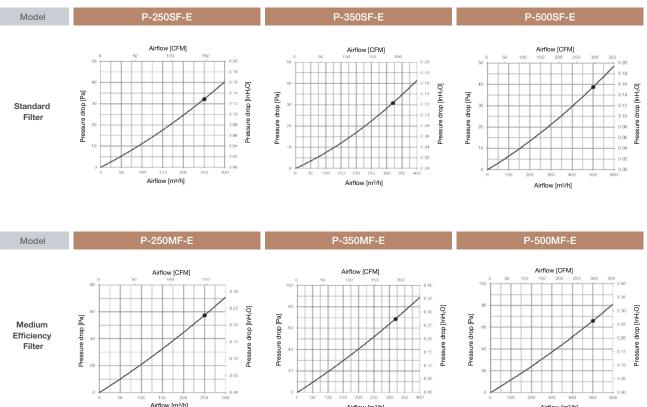
Unit: mm

Filters

Тур	e	Replacement filter	Standard filter	Medium efficiency filter	Advanced efficiency filter	Advanced high efficiency filter	NOx Filter
Moc	lel	P-250F-E P-350F-E P-500F-E	P-250SF-E P-350SF-E P-500SF-E	P-250MF-E P-350MF-E P-500MF-E	P-250PF-E P-350PF-E P-500PF-E	P-250PFH-E P-350PFH-E P-500PFH-E	P-250NF-E P-350NF-E P-500NF-E
Classification	EN779 (2012) ISO 16890 (2016)	G3 Coarse 55%	G4 Coarse 90%	M6 ePM10 80%	M6 ePM2.5 50%	ePM1 55%	NO ₂ 90%

Pressure loss characteristics

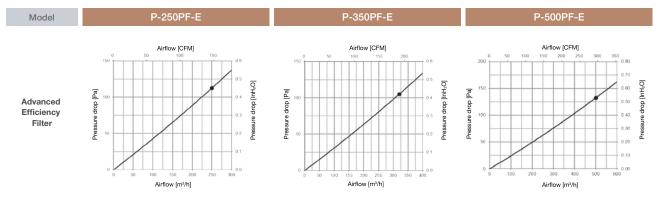
Airflow [m3/h]

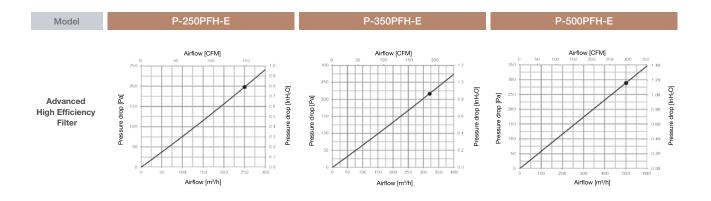


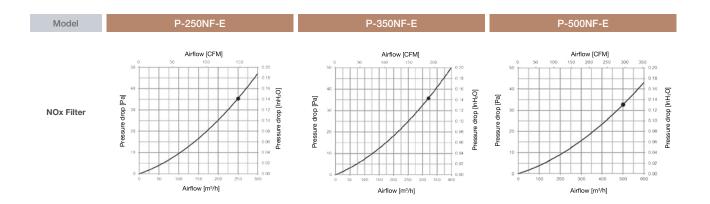
Airflow [m3/h]

Airflow [m³/h]

Pressure loss characteristics







Silencer Box

P-250/350/500SB-E

Noise level can be further decreased by using a silencer box.



P-250SB-E



Installation Image

Model

Attenuation of sound power level for center frequency

Airflow Static pressure Point Attenuation of sound power level for center frequency H										Hz (dB)	
(,	,	(Pa)		63	125	250	500	1000	2000	4000	8000
	175	74	Outlet (SA/EA)	9	7	11	19	29	28	21	13

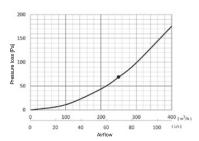
1. Figures in the chart above are measured by Mitsubishi Electric.

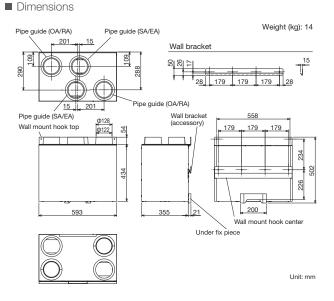
2. The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.

3. When airflow differs, attenuation may also differ from the chart above.

Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.





Model

Attenuation of sound power level for center frequency

	Airflow (m ³ /h)	Static pressure	Point	Attenu	ation of	sound p	ower lev	el for ce	enter fred	quency H	łz (dB)
	(,,	(Pa)		63	125	250	500	1000	2000	4000	8000
	224	74	Outlet (SA/EA)	12	8	11	21	32	29	19	12

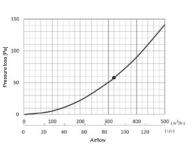
1. Figures in the chart above are measured by Mitsubishi Electric.

2. The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.

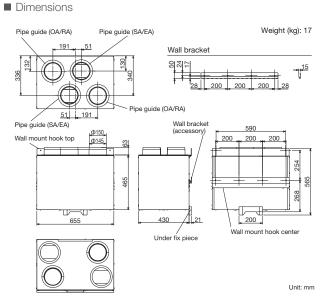
3. When airflow differs, attenuation may also differ from the chart above.

Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.



P-350SB-E



242

P-500SB-E

Attenuation of sound power level for center frequency

Airflow (m ³ /h)	Static pressure	Point	Attenu	ation of	sound p	ower lev	vel for ce	enter free	quency H	Iz (dB)
(1171)	(Pa)		63	125	250	500	1000	2000	4000	8000
350	98	Outlet (SA/EA)	10.5	9.5	13.0	21.0	27.0	29.0	26.0	14.0

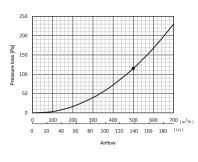
1. Figures on the chart above are measured by Mitsubishi Electric.

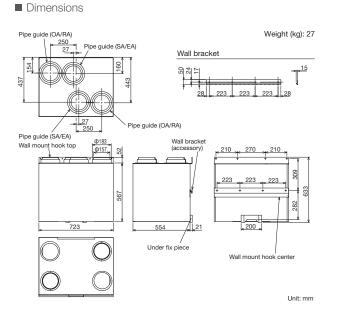
The silencer box is placed on the just after the outlet of the LOSSNAY unit as specified in the Installation Manual.

3. When the airflow differs, the attenuation may be also different from the chart above.

Pressure loss curve

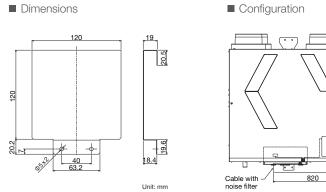
The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.

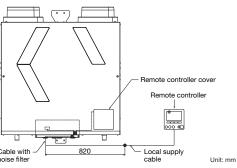




Remote Controller Cover

By attaching a Remote Controller Cover, the remote controller can be installed at a distance from the unit.





P-RCC-E



Remote controller cover



Cable with noise filter (Cable length outside the product: Approximately 820 mm)

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

Wall-mounted models particularly suited for houses and small offices.

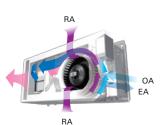


VL-50(E)32-E VL-50SR2-E

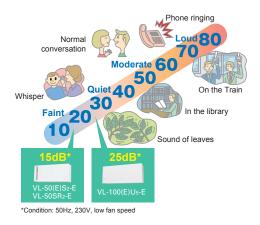
VL-100(E)U5-E

Decentralized Ventilation: VL-50(E)S₂-E, VL-50SR₂-E and VL-100(E)U₅-E

Product advantages Air is supplied and exhausted simultaneously Air is supplied and exhausted simultaneously while transferring the heat.



Low noise levels are ideal for bedrooms and children's rooms.



Energy efficient

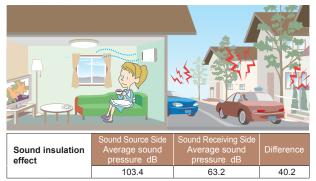
• Total heat exchange minimizes heat loss.

• Achieve over 80%* temperature efficiency.

*VL-100(E)U5-E at low fan speed at 230V 50Hz *VL-50(E)S2-E at low fan speed at 230V 50Hz

Sound insulation

A sound insulation effect reduces the level of noise generated outside.



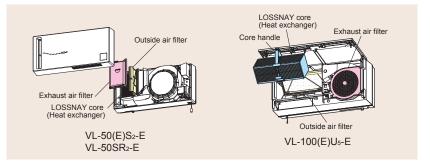
*Tested using VL-08S2-AE

*Measured by average sound pressure level of more than 30dB in 500Hz according to JIS A1416.

VL-08S2-AE is a Japanese dedicated model equivalent to VL-50(E)S2-E

Easy maintenance

The only maintenance required is cleaning the outside air filter and exhaust air. Filters are easily accessible, making quick and thorough cleaning possible.



Flexible installation for Only VL-50(E)S₂-E and VL-50SR₂-E

VL-50(E)S2-E and VL-50SR2-E may be installed either horizontally or vertically to fit in various types of rooms.



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

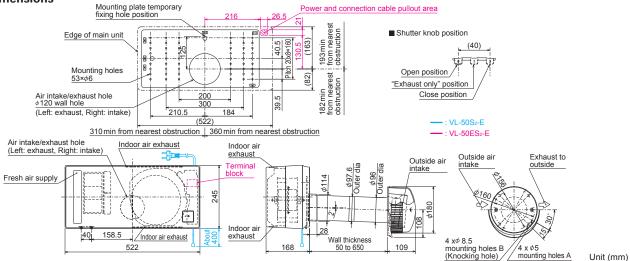
Specifications

Model: VL-50S2-E (Pull-Switch Model) and VL-50ES2-E (Wall-Switch Model)

Model				VL-50	(E)S2-E					
Electrical power supply	220V	/50Hz	230V	/50Hz	240V,	/50Hz	220V	/60Hz		
Fan speed	High	Low	High	Low	High	Low	High	Low		
Airflow (m ³ /h)			52.5	16	54	17	54	17		
Power consumption (W)			20	4.5	21	5	21	5.5		
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84		
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5		
Weight (kg)	6.2									
Specific energy consumption class		С								

*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position. *Specifications may be subject to change without notice.

Dimensions



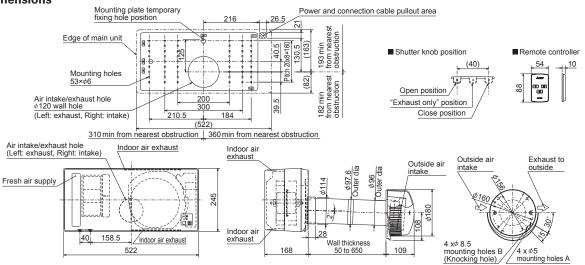
Model: VL-50SR₂-E (Remote Controller Model)

Model				VL-50	SR2-E						
Electrical power supply	220V,	/50Hz	230V	/50Hz	240V,	/50Hz	220V	/60Hz			
Fan speed	High Low H		High	Low	High	Low	High	Low			
Airflow (m ³ /h)	51	15	52.5	16	54	17	54	17			
Power consumption (W)	ion (W) 19 4.5		20	5	21	5.5	21	6			
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84			
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5			
Weight (kg)	6.2										
Specific energy consumption class		С									

*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position.

*Specifications may be subject to change without notice

Dimensions



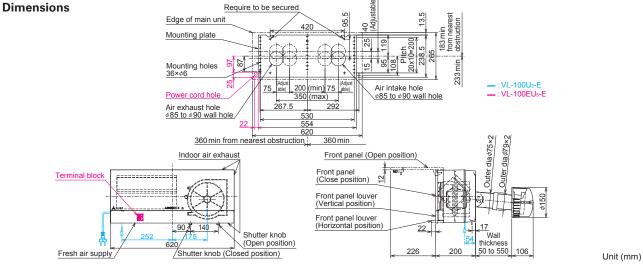
Unit (mm)

Model: VL-100U5-E (Pull-Switch Model) and VL-100EU5-E (Wall-Switch Model)

Model		VL-100(E)U₅-E										
Electrical power supply	220V,	/50Hz	230V,	/50Hz	240V	/50Hz	220V,	/60Hz				
Fan speed	High Low		High	Low	High	Low	High	Low				
Airflow (m³/h)	100	55	105	60	106	61	103	57				
Power consumption (W)	30	13	31	15	34	17	34	17				
Temperature exchange efficiency (%)	(%) 73 80		73	80	72	79	73	80				
Noise level (dB)	36.5	24	37	25	38	27	38	25				
Weight (kg)				7	.5							
Specific energy consumption class	В											

*Figures in the chart were measured according to Japan Industrial Standard (JIS B 8628) with the shutter knob in open position. *Specifications may be subject to change without notice.

opecifications may be se



Optional Parts

Optional Parts for VL-50(E)S₂-E and VL-50SR₂-E

Filter, Extension Pipe and Stainless Hood

Туре	Replacement Filter High Efficiency Filter		Extension Pipe	Joint	Stainless Hood
Design					
Model	P-50F2-E	P-50HF2-E	P-50P-E	P-50PJ-E	P-50VSQ5-E
Feature	-	_	Total length when connected to the joint is 350mm.	Joint for extension pipe	Stylish stainless hood
Classification (EN779:2012)	G3	_	_	_	-
Classification (ISO16890)	Coarse 35%	ePM10 75%	_	-	-

Optional Parts for VL-100(E)U5-E

Filter and Extension Pipe

Туре	Replacement Filter High Efficiency Filter		Extension Pipe	Joint
Design				\mathbf{O}
Model	P-100F5-E	P-100HF5-E	P-100P-E	P-100PJ-E
Feature	_	_	Total length when connected to the joint is 300mm.	 Joint for extension pipe Screw-in method
Classification (EN779:2012)	C2		_	-
Classification (ISO16890)	Coarse 35%	ePM10 70%	-	-

PLASMA QUAD PROTECT

JC-4K-EU, JC-23KR-EU

Core Technology

Suppresses viruses

of 230m³/h in a 25m³ closed space:

99% suppression in 25 minutes

The JC series is equipped with a Plasma Quad electronic device. It is also equipped with a blower fan, so air control is performed while creating a circulating airflow. As a result, indoor air quality is improved. Two models are available to suit various spaces.



Suppresses bacteria

Test result of operating the unit with an air volume of 230m³/h in a 25m³ closed space:

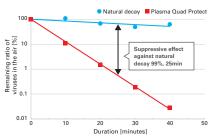
99% suppression in 28 minutes

This result does not represent the product's performance in a practical operating environment.



Test result of operating the unit with an air volume of $230m^3/h$ in a 27.5m³ closed space: 99% suppression in 31 minutes

PM2.5 is a general term for fine particulate matter of 2.5µm or less



Test result of operating the unit with an air volume

performance in a practical operating environment.

This result does not represent the product's

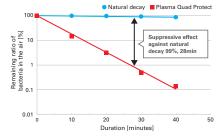
[Testing laboratory] Kitasato Research Center for Environmental Science

[Testing method] Spraying virus in 25m³ of closed space, collecting the air in the space after a certain period of time, and measuring the amount of virus in the air.

[Condition] Operating JC-23KR-EU with an air volume of 230m³/h, 1 type of virus

[Result] 99% suppression after 25min.

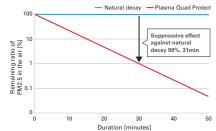
Test Report No.2022_0421



[Testing laboratory] Kitasato Research Center for Environmental Science

[Testing method] Spraying bacteria in $25m^3$ of closed space, collecting the air in the space after a certain period of time, and measuring the amount of bacteria in the air. [Condition] Operating JC-23KR-EU with an air volume of $230m^3/h$, 1 type of bacteria [Result] 99% suppression after 28min.

Test Report No.2022_0420



[Testing method] According to JEM1467.

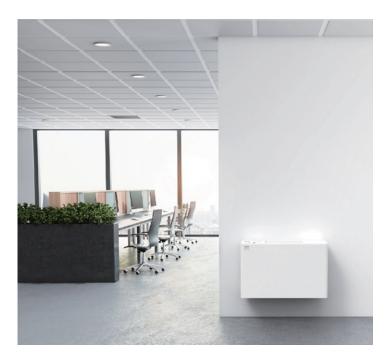
Operating JC-23KR-EU (230m3/h, 31min.) in a closed space of 27.5m³. Additional particle from outside is not considered. This result does not represent the product's performance in an actual operating environment.

Air Purifier Type

Features and Concept

Flat and Stylish Design

JC-23KR-EU is a large air volume type. It is an air purifier equipped with a HEPA^{*1} filter with a CADR^{*2} rating. The stylish wall-mounted design matches almost any space.



*1: HEPA filter rated as an EN1822 H13 grade.

*2: CADR (Clean Air Delivery Rate) value of 254m/h (pollen), 222m³/h (dust) and 228m³/h (smoke).

Circulation throughout the Room

JC-23KR-EU creates circulation flow throughout the room. It sucks air into the product and first passes it through a dust filter. The air is then delivered to the HEPA filter and Plasma Quad device. The purified air is transported from the product to the entire room.

[Conditions for airflow simulation] Air volume: 230m³/h (powerful mode) Room dimensions: width 4.3m, depth 4.3m, height 2.6m No wind, air current or ventilation in the room.

Visualization of Air Quality

JC-23KR-EU can be connected to MELCloud in the same way as air conditioners and LOSSNAY. By connecting to MELCloud, it is possible to check IAQ information and control air quality via the MELCloud app.

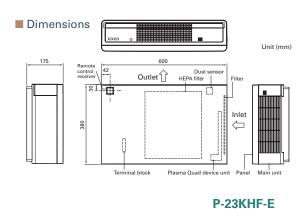
Specifications and Dimensions

This product has two manual operation modes: Powerful and Silent. It also has an Auto mode. When in Auto mode, the sensor detects the level of dirt in the room and operates with an appropriate air volume.

JC-23KR-EU



Voltage		Power consumption [W]	Air volume [m³/h]	Noise level [dB]	Weight [kg]
220V	Silent	8	20	34	
2200	Powerful	63.5	230	72	
230V	Silent	8	20	34	8.5
2300	Powerful	63.5	230	72	8.5
240V	Silent	8	20	34	
2400	Powerful	63.5	230	72	



Replacement Filter

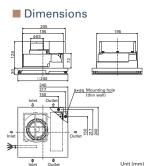
When the HEPA filter needs to be replaced, please order the optional parts P-23KHF-E.

Air Circulator Fan Type

JC-4K-EU is a small air volume type product. It is installed on the ceiling or the wall. Dust filters and the Plasma Quad device will clean the air in the room. Use "High" fan speed to quickly improve indoor air quality, air "Low" fan speed for quiet operation.







Specifications

Voltage	Fan speed	Power consumption [W]	Air volume [m³/h]	Noise level [dB]	Weight [kg]
220V	High	11.5	38	35	
2200	Low	7.5	19	20	
230V	High	12.5	40	36.5	2.4
2300	Low	8	20	21	2.4
240V	High	13.5	42	38.5	
240 V	Low	8.5	21	22	

*Specifications may be subject to change without notice.





Optional parts for LGH/GUF Series

Commercial

Opti	onal parts			LGH-15RVX3-E	LGH-25RVX3-E	LGH-35RVX3-E	LGH-50RVX3-E	LGH-65RVX3-E	LGH-80RVX3-E	LGH-100RVX3-E	LGH-160RVX3-E	LGH-200RVX3-E	LGH-150RVXT-E	LGH-200RVXT-E	LGH-250RVXT-E	JRVS-E	LGH-80RVS-E	LGH-100RVS-E	JRD4	IRDH4	0RD4	GUF-100RDH4
opu			Model	LGH-15	LGH-25	LGH-35	LGH-50	LGH-65	LGH-80	LGH-10	LGH-16	LGH-20	LGH-15	LGH-20	LGH-25	LGH-50RVS-E	LGH-80	LGH-10	GUF-50RD4	GUF-50RDH4	GUF-100RD4	GUF-10
LOS	SNAY	PZ-6	2DR-EA/EB																			
rem	ote controller	PZ	-43SMF-E																			
			PZ-15RF3-E																			
			PZ-25RF3-E																			
		PZ-**RF3-E	PZ-35RF3-E																			
		(Coarse	PZ-50RF3-E																			
		60% filter)	PZ-65RF3-E																			
			PZ-80RF3-E							_		_										
	Replacement		PZ-100RF3-E							•												<u> </u>
	filter	PZ-**RTF-E	PZ-150RTF-E	-																<u> </u>	<u> </u>	
		(Coarse 50% filter)	PZ-250RTF-E																		<u> </u>	-
		PZ-S**RF-E	PZ-S50RF-E	-																	<u> </u>	
		(Coarse 50% filter)	PZ-S80RF-E PZ-S100RF-E																		-	-
			PZ-500RF8-E	-																	-	
		PZ-**RF8-E (Coarse 35% filter)	PZ-100RF8-E	-																		
		(oodroo oo /o mtel)	PZ-100RF8-E PZ-15RFM3-E		<u> </u>	<u> </u>	-	-						-	-	-		<u> </u>	-	-		
			PZ-15RFM3-E PZ-25RFM3-E				-				-					-			-	-	<u> </u>	-
			PZ-35RFM3-E	-												-	-				<u> </u>	+
		PZ-**RFM3-E*1	PZ-50RFM3-E	-				-						-	-	-			-	-	-	+
		(M6 filter)	PZ-65RFM3-E																			-
			PZ-80RFM3-E																			
	High-efficiency		PZ-100RFM3-E																			
	filter	PZ-S**RFM-E	PZ-S50RFM-E																			-
Filter		(ePM10	PZ-S80RFM-E																			<u> </u>
		80% filter)	PZ-S100RFM-E																			1
		PZ-**RFM-E	PZ-50RFM-E															-				
		(ePM10 75% filter)	PZ-100RFM-E																			
			PZ-15RFP3-E																			-
			PZ-25RFP3-E																			
		PZ-**RFP3-E	PZ-35RFP3-E																			
		(ePM1	PZ-50RFP3-E																			
		75% filter)	PZ-65RFP3-E																			
			PZ-80RFP3-E																			
			PZ-100RFP3-E																			
			PZ-15RFH3-E																			
			PZ-25RFH3-E																			
			PZ-35RFH3-E																			
	Advanced high-	PZ-**RFH3-E*1 (F8 filter)	PZ-50RFH3-E																			
	efficiency filter		PZ-65RFH3-E						_		_										<u> </u>	
			PZ-80RFH3-E	<u> </u>																	<u> </u>	-
			PZ-100RFH3-E	-				-												-		
		PZ-**RTFM-E	PZ-M6RTFM-E (M6 Filter)	-															-			-
			PZ-F8RTFM-E (F8 Filter)	-			-	<u> </u>									<u> </u>					-
		PZ-**TDF-E*1	PZ-M6TDF-E (M6 Filter)	-			-	-								-			-	-	├	-
			PZ-F8TDF-E (F8 Filter) PZ-S50RFH-E	-				-											-	-	<u> </u>	-
		PZ-S**RFH-E (ePM1	PZ-S50RFH-E PZ-S80RFH-E	-				-						-						-	<u> </u>	-
		65% filter)	PZ-S100RFH-E	-							-								-		\vdash	+
		PZ-**RFP2-E	PZ-500RFP2-E	-			-	-						-	-						\vdash	-
		(ePM1 75% filter)	PZ-100RFP2-E	-	-	<u> </u>										-						
			-70CSD-E																			
(CO2 sensor		-70CSW-E				ŏ							-	-	ŏ	ŏ	-	-	-	<u> </u>	\vdash
Vort	ical installation		2Z-1VS-E																		<u> </u>	+
vert	plates		2-148 E 2-2VS-E											-	-		1		-	-	<u> </u>	+
Signa	l output terminal		22462-27-46S-E					Ŏ	ŏ	ŏ												1
5			PZ-100SS-E	Ĭ																		\vdash
			PZ-150SS-E																			\vdash
D	ouct silencer	PZ-**SS-E	PZ-200SS-E																			
			PZ-250SS-E																			
1. Des			equilation of Thermal Installations						-	-	· · ·	-	h nrc									

*1: Designed for Spanish market to apply RITE (Regulation of Thermal Installations of Buildings)

Note: Please refer to each product page for required number of pieces/sets.

Optional parts for VL-CZPVU Series

	Optional parts			VL-250CZPVU-R/L-E	350CZPVU-R/L-E	500CZPVU-R/L-E
		Mc	del			VL-E
	Daalaan aa tiibaa		P-250F-E			
	Replacement filter (Coarse 55% filter)	P-**F-E	P-350F-E			
	(,		P-500F-E			
			P-250SF-E			
	Standard filter (Coarse 90% filter)	P-**SF-E	P-350SF-E			
	Medium-efficiency filter P-500SF-E Verticities P-250MF-E		P-500SF-E			
Filter	(ePM10 80% filter)	P-**MF-E	P-350MF-E			
Filter			P-500MF-E			NI-500CZPVUU-R/L-E NI-500CZPVUU-R/L-E Image: State of the stat
			P-250PF-E			
	PM2.5 filter (ePM2.5 50% filter)	P-**PF-E	P-350PF-E			
			P-500PF-E			
			P-250PFH-E			
	PM1 filter (ePM1 55% filter)	P-**PFH-E	P-350PFH-E			
			P-500PFH-E			
			P-250NF-E			
	NOx filter	P-**NF-E	P-350NF-E			
			P-500NF-E			
			P-250SB-E			
	Silencer box	P-**SB-E	P-350SB-E			
			P-500SB-E			
RC	cover (remote controller cover)	P-RC	CC-E			

Optional parts for VL-50/100 Series

Residential

	Optional parts		VL-50S2-E	VL-50ES2-E	VL-50RS2-E	VL-100U5-E	VL-100EU5-E
		Model	<pre>~</pre>	<pre>~</pre>	<pre></pre>	-L-	۲L.
	Replacement filter	P-50F2-E					
Filter		P-100F5-E					
Filler	High-efficiency filter	P-50HF2-E					
		P-100HF5-E					
	Extension nine	P-50P-E					
	Extension pipe	Р-100Р-Е					
	Dina avtancian icint	P-50PJ-E					
	Pipe extension joint	P-100PJ-E					
	Stainless hood	P-50VSQ5-E					

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)

▲ CAUTION

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.

WARNING

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.

MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN https://www.mitsubishielectric.com/

> Full Product Line Catalogue E-2405224 (18692)



