MITSUBISHI ELECTRIC

Changes for the Better

Mitsubishi Electric Quality

SPLIT-TYPE AIR CONDITIONERS

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

Full Product Line Catalogue

2025

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 2050

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

1. Apply diverse technologies in wide-ranging business areas to solve environmental issues
2. Challenge to develop business innovations for future generations
3. Publicize and share new values and lifestyles

Key Initiatives

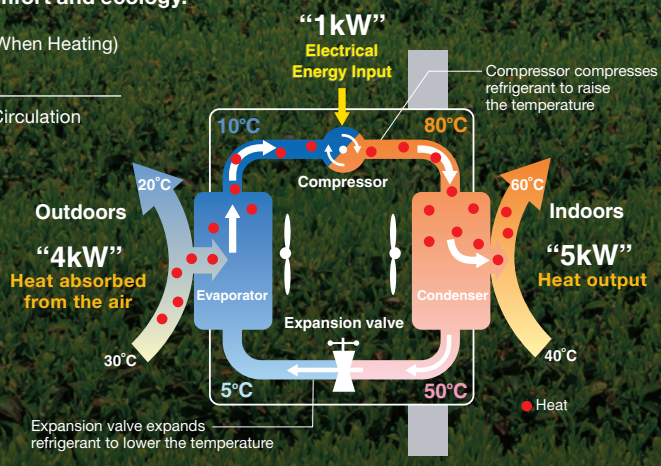
- Climate Change Measures
- Resource Circulation
- Live in Harmony with Nature
- Long-term Activities
- Innovation
- Nurturing Human Resources
- Understanding Needs
- Co-create and Disseminate New Values
- Live in Harmony with the Region

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

Heat Pump Principle (When Heating)

<Case of COP 5.0>

Refrigerant and Heat Circulation

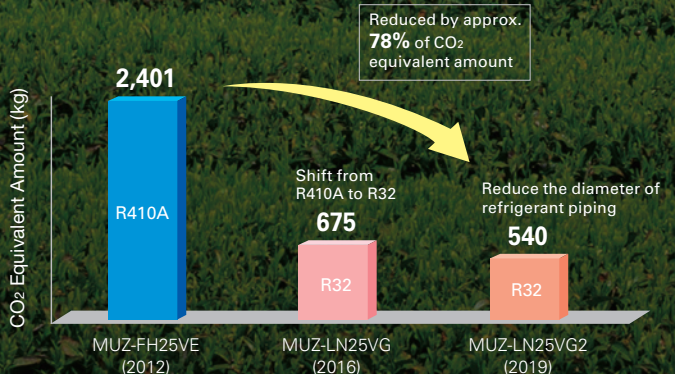


Mitsubishi Electric takes on the challenge of creating new value and contribute to a sustainable future in order to solve various environmental problems.

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 CO_2 equivalent amount compared to conventional models and realised minimizing the negative impact to the environment more than ever.

Reducing the amount of refrigerant usage



* reduction rate difers model by model.

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.

CONTENTS

Air Conditioners

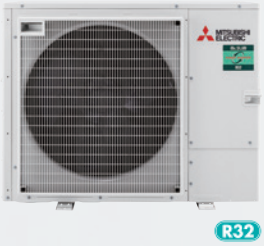
Air Conditioners

M/S/P/Multi/Zubadan

LOSSNAY SYSTEM

New releases

P SERIES



PUZ-ZM100/125/140V/YDA

P.75

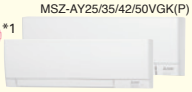
RVXT3 SERIES

LGH-160/200/250RVXT3-E

P.275

LINE-UP

M SERIES
INVERTER Models

Model Name		1.5kW	1.8kW	2.0kW	2.2kW	2.5kW	3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	Page
		1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	
Wall-mounted	MSZ-RW VGHZ Series R32 R410A *2 					SINGLE H	SINGLE H		SINGLE H			13
	MSZ-LN Series R32 R410A *2 		Multi connection only (W·V·R·B)			SINGLE (W·V·R·B)	SINGLE (W·V·R·B)		SINGLE (W·V·R·B)	SINGLE (W·V·R·B)		17
	MSZ-LN VGHZ Series R32 R410A *2 					SINGLE H	SINGLE H		SINGLE H			22
	MSZ-AY series R32 R410A *1 MSZ-AY25/35/42/50VGK(P)  MSZ-AY15/20VGK(P)	SINGLE		SINGLE		SINGLE H	SINGLE H	SINGLE H	SINGLE H			25
	MSZ-AP series R32 R410A *2 									SINGLE	SINGLE	29
	MSZ-E Series R32 R410A *2 		Multi connection only (W·S·B)		Multi connection only (W·S·B)	SINGLE (W·S·B) H	SINGLE (W·S·B) H	SINGLE (W·S·B)	SINGLE (W·S·B)			33
	MSZ-FT VGHZ Series R32 					SINGLE H	SINGLE H		SINGLE H			35
	MSZ-BT Series R32 			SINGLE		SINGLE	SINGLE		SINGLE			37
	MSZ-HR Series R32 MSZ-HR25/35/42/50VF(K)  MSZ-HR60/71VF(K)					SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	39
	MSZ-DW Series R32 					SINGLE	SINGLE		SINGLE			41
	MSY-TP Series R32 						SINGLE		SINGLE			43
Compact floor	MFZ-KT Series R32 					SINGLE	SINGLE		SINGLE	SINGLE		45
	MFZ-KW Series R32 					SINGLE H	SINGLE H		SINGLE H	SINGLE H		47
1-way cassette	MLZ Series R32 MLZ-KY20VG MLZ-KP25/35/50VG 			Multi connection only		SINGLE	SINGLE		SINGLE			49

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

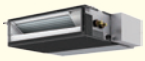
H : Outdoor unit with freeze-prevention heater is available.
W·S·B: Indoor units are available in three colours; White, Black and Silver.
W·V·R·B: Indoor units are available in four colours; Natural White, Pearl White, Ruby Red, and Onyx Black.

Indoor Combinations

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

S SERIES

INVERTER Models

Model Name		1.5kW 1-phase	2.5kW 1-phase	3.5kW 1-phase	5.0kW 1-phase	6.0kW 1-phase	7.1kW 1-phase	10.0kW 1- & 3-phase	12.5kW 1- & 3-phase	14.0kW 1- & 3-phase	Page
2 x 2 cassette	SLZ Series R32 R410A 	Multi connection only	SINGLE	SINGLE	SINGLE	SINGLE	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		3.5kW 1-phase	5.0kW 1-phase	6.0kW 1-phase	7.1kW 1-phase	10.0kW 1- & 3-phase	12.5kW 1- & 3-phase	14.0kW 1- & 3-phase	20.0kW 3-phase	25.0kW 3-phase	Page
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-concealed	PEAD Series R32 R410A 	SINGLE	SINGLE	SINGLE	SINGLE TWIN *	SINGLE TWIN	SINGLE TWIN	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	87
	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 * R32 R410A 				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 MXZ-2F33VF4 R32		3.3kW <1-phase>	109
up to 2 indoor units MXZ-2F42VF4 R32		4.2kW <1-phase>	109
up to 2 indoor units MXZ-2F53VF(H)4 R32		5.3kW <1-phase>	109
up to 3 indoor units MXZ-3F54VF4 R32		5.4kW <1-phase>	109
up to 3 indoor units MXZ-3F68VF4 R32		6.8kW <1-phase>	109
up to 4 indoor units MXZ-4F72VF4 R32		7.2kW <1-phase>	109
up to 4 indoor units MXZ-4F80VF4 R32		8.0kW <1-phase>	109
up to 4 indoor units MXZ-4F83VF2 R32		8.3kW <1-phase>	109
up to 5 indoor units MXZ-5F102VF2 R32		10.2kW <1-phase>	109
up to 6 indoor units MXZ-6F120VF2 R32		12.0kW <1-phase>	109
up to 2 indoor units MXZ-2HA40VF2 R32		4.0kW <1-phase>	114
up to 2 indoor units MXZ-2HA50VF2 R32		5.0kW <1-phase>	114
up to 3 indoor units MXZ-3HA50VF2 R32		5.0kW <1-phase>	114

MXZ-VFHZ SERIES INVERTER Models

Model Name		2.5kW 1-phase	3.5kW 1-phase	5.0kW 1-phase	5.3kW 1-phase	6.0kW 1-phase	8.3kW 1-phase	10.0kW 1 & 3-phase	12.5kW 3-phase	Page
Multi split	MXZ-F VFHZ2 Series MXZ-E VAHZ Series R32 R410A 				2PORT H		4PORT H			111

✻ R410A is for PUMY connection.

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

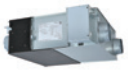
PUMY SERIES INVERTER Models

Model Name		12.5kW 1 & 3-phase	14.0kW 1 & 3-phase	15.5kW 1 & 3-phase	22.4kW 3-phase	28.0kW 3-phase	33.5kW 3-phase	Page
PUMY-SP R410A		✓	✓	✓				121
PUMY-P R410A		✓	✓	✓	✓	✓	✓	123
PUMY-SM R32		✓	✓	✓				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

Commercial		Residential	
Ceiling Concealed Type		Vertical Type	Wall Mounted Type
 LGH-RVX3 Series	 LGH-RVXT3 Series	 VL-CZPVU Series	 VL-50(E)S2-E VL-50SR2-E
 LGH-RVS Series	 GUF Series		

M

SERIES

SELECTION

Choose the model that best matches room conditions.

SELECT SERIES

A multiple series line-up to choose from, each with various outstanding features. In addition to inverter-equipped models, constant-speed, floor-standing and cassette models can be selected. Choose the best series to match usage needs.

Wall-mounted Units

MSZ-RW SERIES R32 R410A *2

25/35/50 SEER A+++ A / 25/35 SCOP A+++ A / 25/35 MXZ connection

MSZ-LN SERIES R32 R410A *2

25/35/50 SEER A+++ A / 25/35 SCOP A+++ A / 25/35 MXZ connection

MSZ-AY SERIES R32 R410A *2

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

MSZ-AY15/20VGK(P)

25/35 SEER A+++ A / 25-50 SCOP A+++ A / MXZ connection

MSZ-AP SERIES R32 R410A *1

60 SEER A+++ A / 60 SCOP A+++ A / MXZ connection

MSZ-E SERIES R32 R410A *1

25/35 SEER A+++ A / 25/35 SCOP A+++ A / MXZ connection

MSZ-BT SERIES R32

25/35 SEER A+++ A / SCOP A+++ A / MXZ connection

MSZ-HR SERIES R32

MSZ-HR60/71VF(K)

MSZ-HR25-50VF(K)

SEER A+++ A / SCOP A+++ A / MXZ connection

MSZ-DW SERIES R32

SEER A+++ A / SCOP A+++ A / MXZ connection

MSY-TP SERIES R32

35 SEER A+++ A

Floor-standing

MFZ SERIES R32 R410A *2

SEER A+++ A / SCOP A+++ A / MXZ connection

Cassette Units

MLZ SERIES R32 R410A *2

MLZ-KP25/35/50VG

MLZ-KY20VG

MXZ connection

SEER A+++ A / SCOP A+++ A Energy Rank

MXZ connection Compatible for connection to MXZ Series system

R32 R32 Refrigerant

R410A R410A Refrigerant

*1 R410A for MXZ and PUMY connection.
*2 R410A for PUMY connection only.

SELECT OUTDOOR UNIT

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

Heater Installed

MUZ-AY25/35/42/50VGH
MUZ-EF25/35VGH

MUZ-AY50VGH

Hyper Heating

MUZ-RW25/35/50VGHZ
MUZ-LN25/35/50VGHZ
MUZ-FT25/35/50VGHZ
MUFZ-KW25/35/50/60VGHZ

MUZ-LN50VGHZ2

Selecting a Heater-equipped Model

In regions with the following conditions, there is a possibility that water resulting from condensation on the outdoor unit when operating in the heating mode will freeze and not drain from the base.

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

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

MSZ-RW SERIES

R32 Single / MXZ, PUMY
R410A PUMY

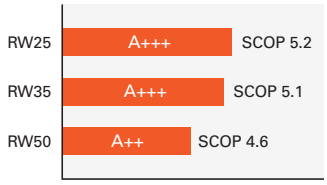
As a flagship model, RW series realises further outstanding heating performances under extremely cold outdoor temperature even with high energy efficiency. Moreover, excellent air purifying functions and many other smart features deliver a great comfort to you.

MSZ-RW25/35/50VG

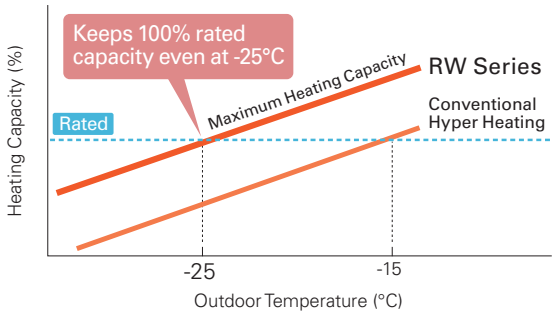
Heating Performance

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

High Energy Efficiency

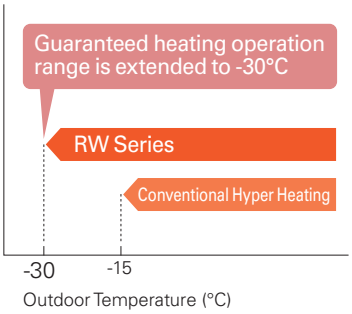


Improved Heating Capacity



According to the optimal conditions observed in the lab test.

Wider Heating Operation Range



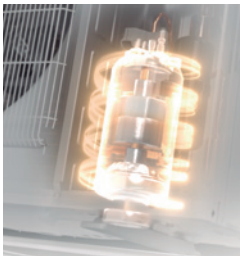
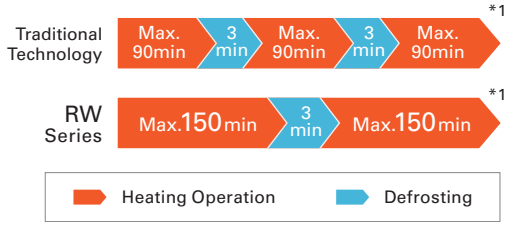


*Image is for illustration purposes.

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.

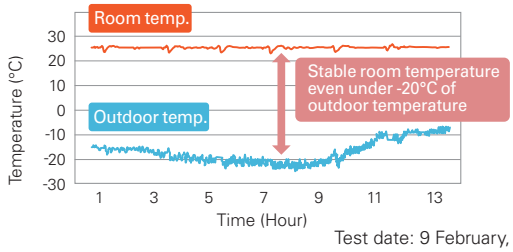


*1 The time for heating and defrosting operation depends on the environmental conditions.

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



Test date: 9 February, 2021

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.

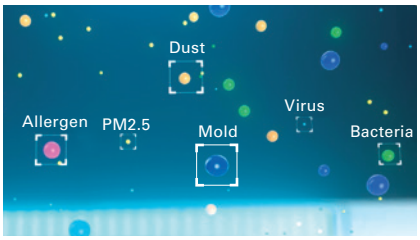
*Image is for illustration purposes.

Circulator Mode

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

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.



*Images are for illustration purposes.

Virus (Airborne)

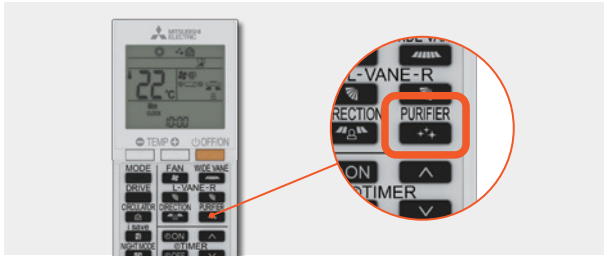
99% inhibited*1

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

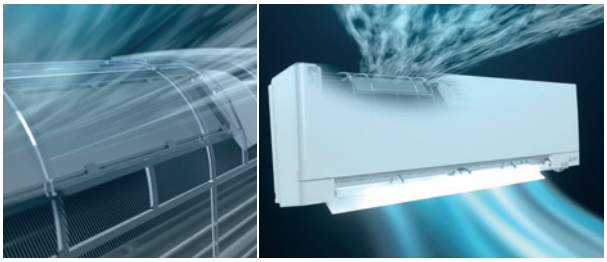
Quick Air Purifying Set

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.



Deodorising Filter

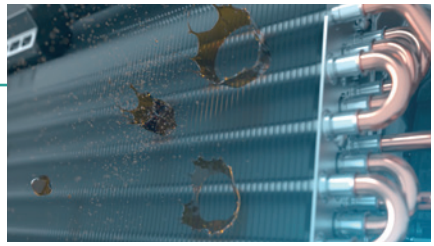
The catalyst in Deodorising Filter denatures the odorous components and destroys them from the source of the odour, quickly delivering fresh air to your room.



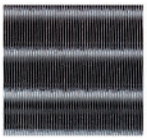
Dual Barrier Coating

SIAA Anti Fungus JP0512075X0001C (Fan, Air duct) *1

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.



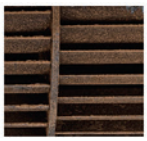
❶ Heat Exchanger



No Dual Barrier Coating used (Image after 10 years)

Dual Barrier Coating used

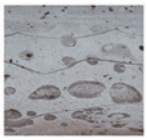
❷ Fan



No Dual Barrier Coating used (Image after 10 years)

Dual Barrier Coating used

❸ Air Duct



No Dual Barrier Coating used (Image after 10 years)

Dual Barrier Coating used

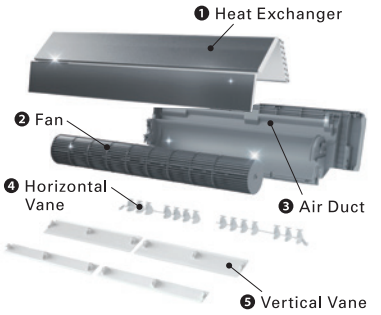


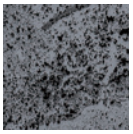
*Image is for illustration purposes.

Dual Barrier Material

SIAA Anti Fungus JP0512075X0001C (Horizontal Vane, Vertical Vane) *2

Dual Barrier Material performs the same antifouling effect as Dual Barrier Coating, and it is kneaded into horizontal vane and vertical vane material which are hard to apply coating to. Combined with Dual Barrier Coating, the whole air passage of indoor unit is kept clean all year round.

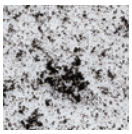
❹ Horizontal Vane



No Dual Barrier Material

Dual Barrier Material

❺ Vertical Vane



No Dual Barrier Material

Dual Barrier Material

*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

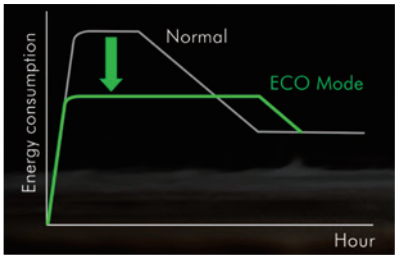
Drive Mode Selector allows you to select a preferred control setting according to your residential environment from three modes, Wide Room mode, Quiet mode, and Eco mode.

Wide Room Mode

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

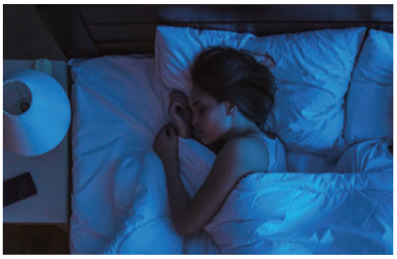
Eco Mode

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



Quiet Mode

Lowers operation noise level, creating quieter and peaceful environment.

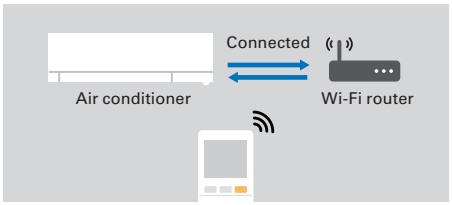


Built-in Wi-Fi & App Control

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.

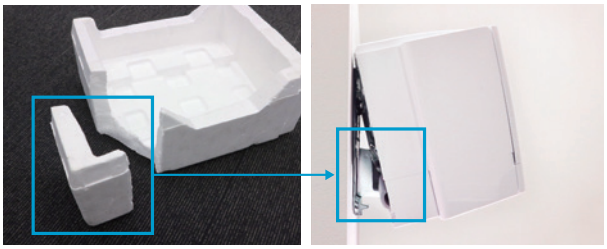
Back Plate with a Hole

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.

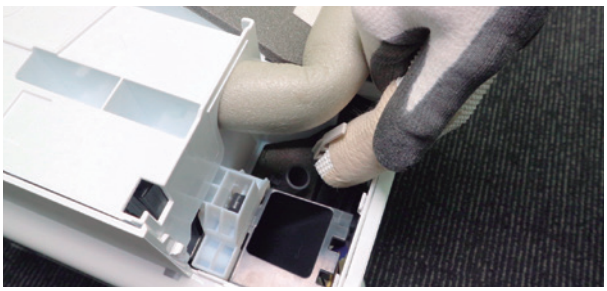


Bottom Removable Structure

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 | DC Inverter | Joint Lap | DC Fan Motor | PAM | Grooved Piping | 25 / 35 SEER | 25 / 35 SCOP

Indoor Unit / Remote Controller

<White>

MSZ-RW25/35/50VG

Outdoor Unit

MUZ-RW25/35VGHZ

MUZ-RW50VGHZ

3D i-see Sensor | Circulator (-SC Only) | Econo Cool (-E/-ET Only) | Plasma Quad Plus | Dual Barrier Coating | Dual Barrier Material | V Blocking Filter (Optional) | Deodorising Filter | Double Vane | SWING | SWING | AUTO | Drive Mode Selector | Night | Back Light Remote | Weekly Timer

i save | ACO | Auto Restart | Low Temp Cooling | Optional | Group Control (Optional) | M-NET connection (Optional) | Wi-Fi Interface | MXZ connection (25/35) | 10°C | Indoor | Cleaning-free pipe route | Flare connection | Self Diagnosis | Failure Recall

Type				Inverter Heat Pump		
Indoor Unit				MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG
Outdoor Unit				MUZ-RW25VGHZ	MUZ-RW35VGHZ	MUZ-RW50VGHZ
Refrigerant				R32 (*1)		
Power Supply	Source			Outdoor Power supply		
	Outdoor (V/Phase/Hz)			230/Single/50		
Cooling	Design Load		kW	2.5	3.5	5.0
	Annual Electricity Consumption (*2)		kWh/a	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
Heating (Average Season)(*5)	Design Load		kW	3.2	4.0	6.0
	Declared Capacity	at reference design temperature	kW	3.2 (–10°C)	4.0 (–10°C)	6.0 (–10°C)
		at bivalent temperature	kW	3.2 (–10°C)	4.0 (–10°C)	6.0 (–10°C)
		at operation limit temperature	kW	2.6 (–30°C)	2.6 (–30°C)	4.0 (–30°C)
	Back Up Heating Capacity		kW	0.0	0.0	0.0
	Annual Electricity Consumption (*2)		kWh/a	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
Operating Current (max)			A	9.8	11.2	15.2
Indoor Unit	Input	Rated	kW	0.021	0.022	0.041
	Operating Current (max)		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 (SLo-Lo-Mid-Hi-SHi (*3))	Cooling	m^3/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
		Heating	m^3/min	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) (SLo-Lo-Mid-Hi-SHi (*3))	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	26 - 30 - 34 - 39 - 45
		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
Outdoor Unit	Dimensions	H*W*D	mm	714 - 800 - 285	714 - 800 - 285	880 - 840 - 330
	Weight		kg	39.5	40	54
	Air Volume	Cooling	m^3/min	35.1	37.8	49.3
		Heating	m^3/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)	Cooling	dB(A)	60	61	64
	Operating Current (max)		A	9.6	11.0	14.8
	Breaker Size		A	10	12	16
Ext. Piping	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52
	Max. Length	Out-In	m	20	20	30
	Max. Height	Out-In	m	12	12	15
Guaranteed Operating Range [Outdoor]		Cooling	°C	–10 ~ +46	–10 ~ +46	–10 ~ +46
		Heating	°C	–30 ~ +24	–30 ~ +24	–30 ~ +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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results.Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 for heating (warmer season) specifications.

MSZ-LN18/25/35/50/60VG2

R32
Single / MXZ, PUMY

R410A
PUMY

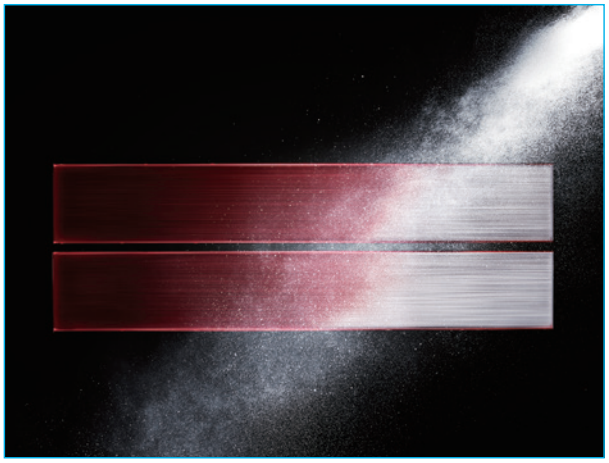
MSZ-LN SERIES

GOOD DESIGN AWARD 2016
BEST 100

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

Luminous and Luxurious Design

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



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

Pearl White blends in with any interior.

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

Onyx Black matches darker interiors, creating a comfortable environment.

LED Backlight Remote Controller

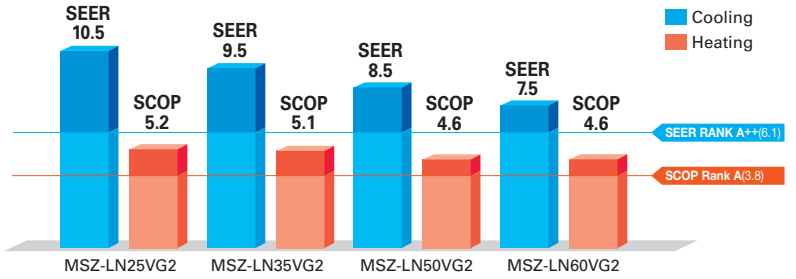
Not only the indoor units, but also the wireless remote controllers come in four colours as well. Each remote controller matches the indoor unit. Even the textures are the same.

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

Pearl White | Ruby Red | Onyx Black | Natural White

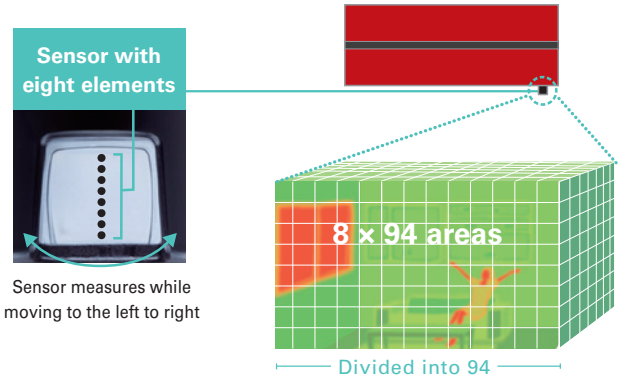
High Energy Efficiency

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



3D i-see Sensor

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

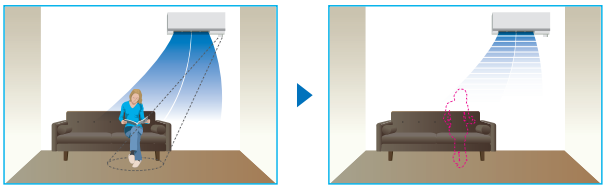


Sensor measures while moving to the left to right

(Image)

No occupancy energy-saving mode

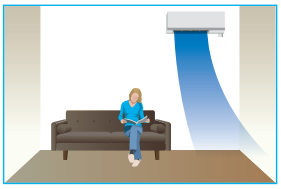
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



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

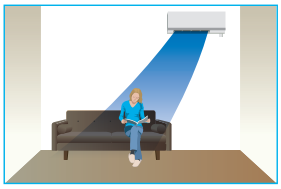
Indirect Airflow

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



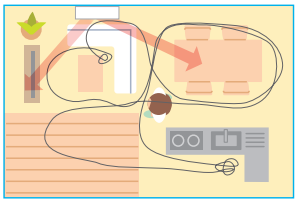
Direct Airflow

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



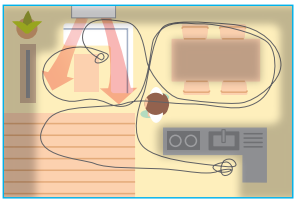
Even Airflow *LN Series only

Normal swing mode



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

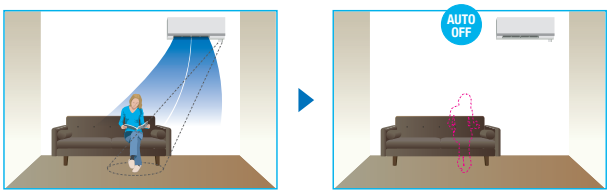
Even airflow mode



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

No occupany Auto-OFF mode *LN Series only

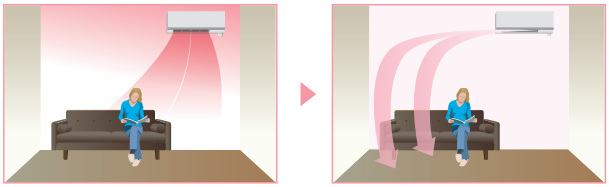
The sensors detect whether or not there are people in the room. When there is no one in the room, the unit turns off automatically.



Circulator Operation

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

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.



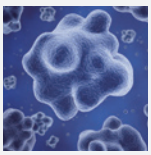
If the heating operation is continued, the warm air is formed around ceiling.

This operation can help to circulate and rense warm air.

Plasma Quad Plus

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

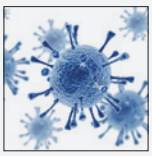
Bacteria



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

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

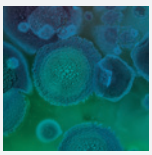
Viruses



Test results have confirmed that Plasma Quad Plus neutralizes 99% of virus particles in 72 minutes in a 25m^3 test space.

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

Molds



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

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

Allergens

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

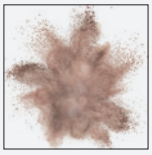
<Test No.> ITEA Report No. T1606028

PM2.5

Test results have confirmed that Plasma Quad Plus removes 99% of PM2.5 in 145 minutes in a 28m^3 test space.

<In-company investigation>

Dust



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

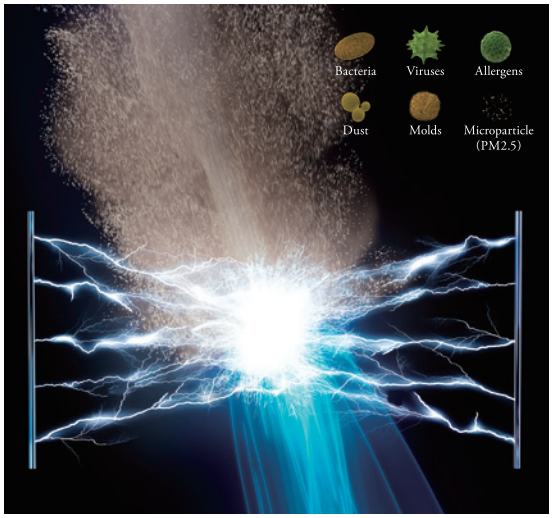
<Test No.> ITEA Report No. T1606028

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

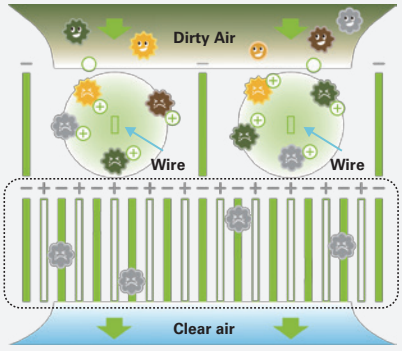
A: Highly effective
B: Effective
C: Partially effective

*PM2.5:
Particles smaller than 2.5μm

Image of Plasma Quad Plus



Principle of Plasma Quad Plus



Dust, PM2.5
Viruses
Bacteria
Mold
Allergens

1st stage

- Make plasma.
- Break mold and allergens. Inhibit viruses.
- Dust and PM2.5 given an electrical charge (+).

2nd stage

- Make a strong electrical field.
- The charged dust and PM2.5 (+) are absorbed in the strong electrical field (–).

Dual Barrier Coating

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

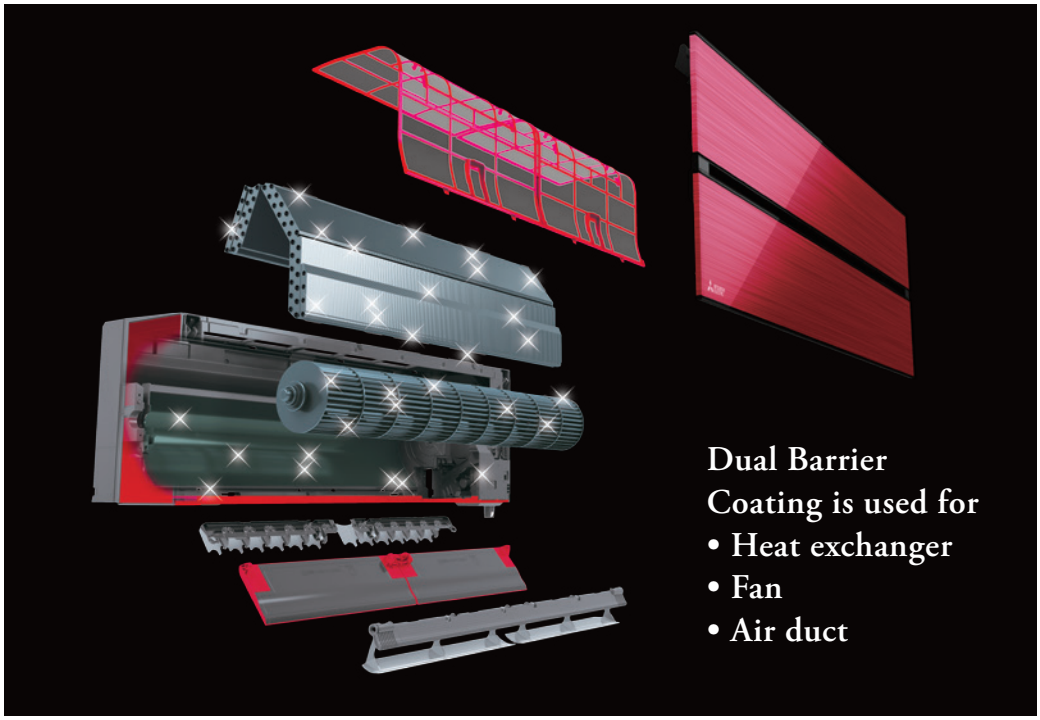
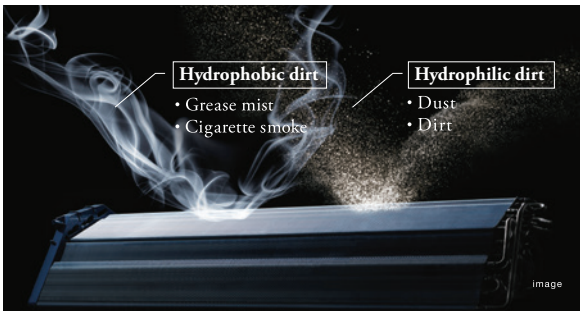


*Image is for illustration purposes.

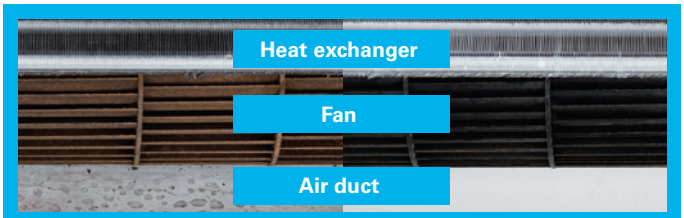
SIAA Anti Fungus *1
JP0512075X0001C
(Fan, Air duct)

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.



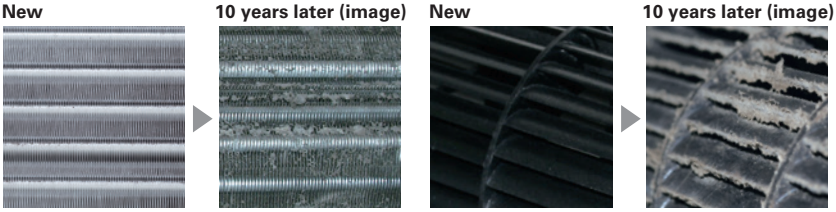
Comparison of dirt on heat exchanger, fan and air duct (in-house comparison)



No dual barrier coating (image after 10 years) Dual barrier coating used

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

Heat exchanger		Fan	
New	10 years later (image)	New	10 years later (image)



Consequences when the inside of the indoor unit is left dirty

- Deterioration in energy efficiency
- Musty smell from the unit

*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.
What is SIAA? *https://www.kohkin.net/en_index/en_siaa.html*

Double Flap

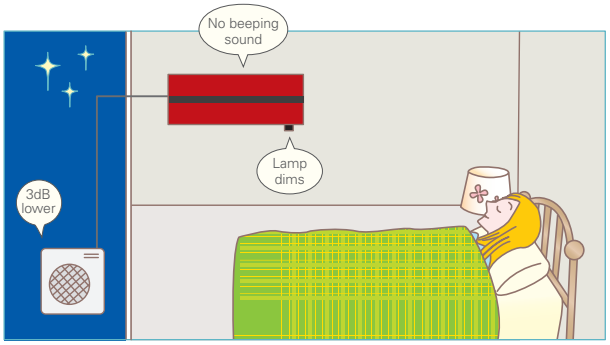
The vanes create various airflows to make each person in the room comfortable. Not only the horizontal vanes, but also the vertical vanes move independently, eliminating hot spots or cold spots throughout the room.

Night Mode

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

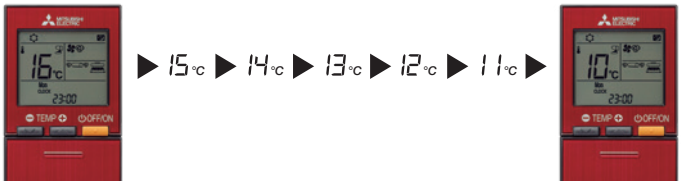
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.

*The cooling/heating capacity may drop.



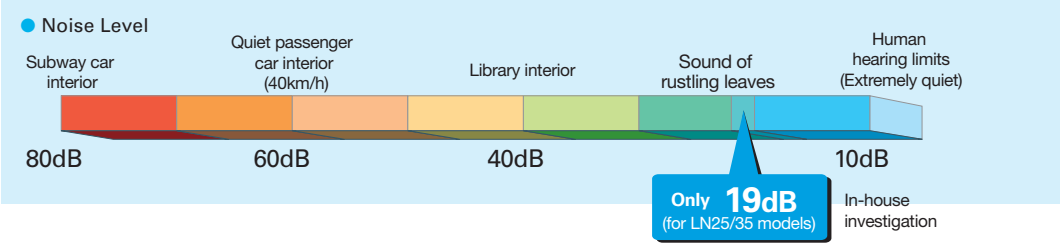
10°C Heating

During heating operation, the temperature can be set in 1°C increments down to 10°C.
This function can also be used with the Weekly Timer setting.



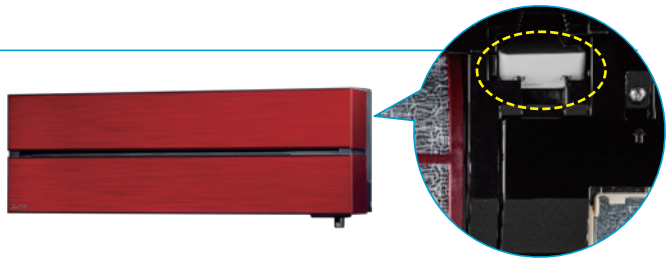
Quiet Operation

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



Built-in Wi-Fi Interface

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



LN VGHZ SERIES

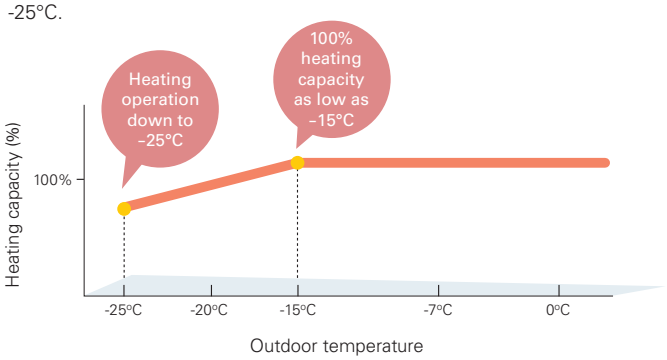
R32 Single / MXZ, PUMY
R410A PUMY

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.

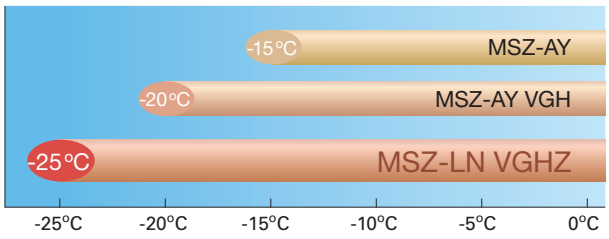
MSZ-LN25/35/50VG2(W)(V)(R)(B)

Unparalleled Heating Performance

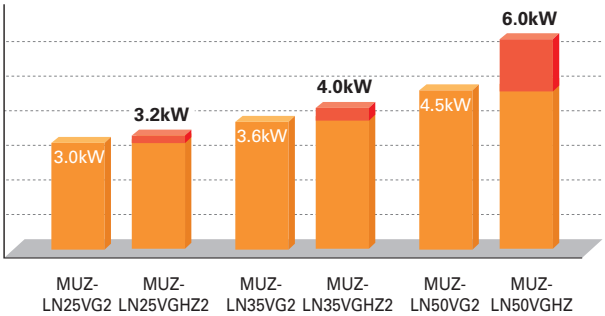
LN Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C.



Operating Range



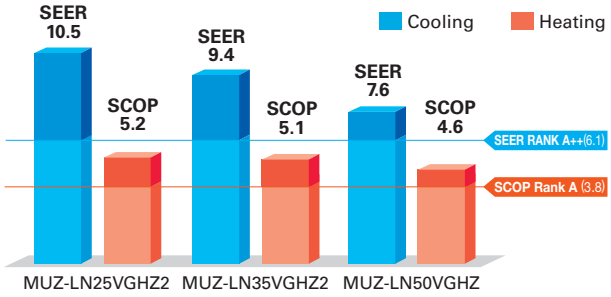
Declared Capacity (at reference design temperature)



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

DC Inverter

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.

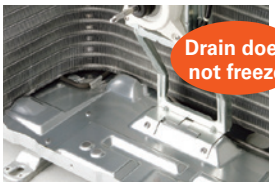


Freeze-prevention Heater Equipped as Standard

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

Can operate at Outdoor temperature temperature of –25°C

Without Freeze-prevention heater



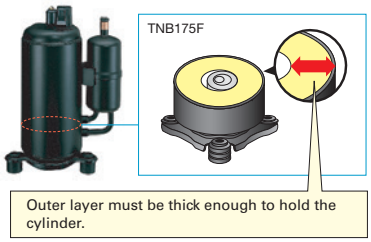
With Freeze-prevention heater

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

Compact, Powerful Compressor

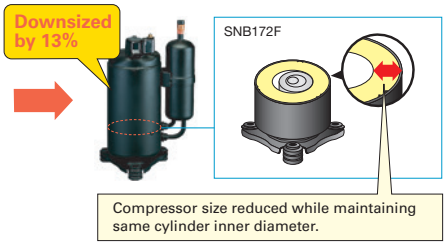
A special manufacturing technology, "Heat Caulking Fixing Method," has been introduced to reduce compressor size while maintaining a high compressor output. This technology enables the installation of a powerful compressor in compact MUZ outdoor units. As a result, excellent heating performance is achieved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

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



Outer layer must be thick enough to hold the cylinder.

Compressor fixed using Heat Caulking Fixing Method



Compressor size reduced while maintaining same cylinder inner diameter.

MSZ-LN SERIES

DC Inverter · Joint Lap · DC Fan Motor · PAM · Grooved Piping · 25 / 35 / 50 SEER · 25 / 35 SCOP

Indoor Unit / Remote Controller

R32 · PUMY R410A

GOOD DESIGN AWARD 2016 BEST 100

<Pearl White>

MSZ-LN18/25/35/50/60VG2V

<Ruby Red>

MSZ-LN18/25/35/50/60VG2R

<Natural White>

MSZ-LN18/25/35/50/60VG2W

<Onyx Black>

MSZ-LN18/25/35/50/60VG2B

Outdoor Unit

R32

MUZ-LN25/35VG2

MUZ-LN50VG2

MUZ-LN60VG2

3D i-see Sensor · AREA · HUMAN · Econo Cool · AUTO VANE · Plazma Quad Plus · V Blocking Filter (Optional) · Dual Barrier Coating · Deodorising Filter · Double Vane · SWING · SWING · AUTO · Weekly Timer · i save

ACO · Auto Restart · Low Temp Cooling · Optional · Group Control (Optional) · M-NET connection (Optional) · Wi-Fi Interface · MXZ connection (18 / 25 / 35 / 50) · 10°C · Indoor · Night · Back Light Remote · Cleaning-free, pipe reuse · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump				
Indoor Unit				MSZ-LN18VG2	MSZ-LN25VG2	MSZ-LN35VG2	MSZ-LN50VG2	MSZ-LN60VG2
Outdoor Unit				for MXZ connection	MUZ-LN25VG2	MUZ-LN35VG2	MUZ-LN50VG2	MUZ-LN60VG2
Refrigerant				Single: R32(*1) / Multi: R410A or R32(*1)				
Power Supply	Source			Outdoor Power Supply				
	Outdoor (V / Phase / Hz)			230 / Single / 50				
Cooling	Design load		kW	–	2.5	3.5	5.0	6.1
	Annual electricity consumption (*2)		kWh/a	–	83	129	205	285
	SEER (*4)			–	10.5	9.5	8.5	7.5
		Energy efficiency class		–	A+++	A+++	A+++	A++
	Capacity	Rated	kW	–	2.5	3.5	5.0	6.1
		Min-Max	kW	–	1.0 - 3.5	0.8 - 4.0	1.0 - 6.0	1.4 - 6.9
	Total Input	Rated	kW	–	0.485	0.820	1.380	1.790
Heating (Average Season)(*5)	Design load		kW	–	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
	Declared Capacity	at reference design temperature	kW	–	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
		at bivalent temperature	kW	–	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
		at operation limit temperature	kW	–	2.5 (-15°C)	3.2 (-15°C)	4.2 (-15°C)	6.0 (-15°C)
	Back up heating capacity		kW	–	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption (*2)		kWh/a	–	807	987	1369	1816
	SCOP (*4)			–	5.2	5.1	4.6	4.6
		Energy efficiency class		–	A+++	A+++	A++	A++
	Capacity	Rated	kW	–	3.2	4.0	6.0	6.8
		Min-Max	kW	–	0.7 - 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
Operating Current (Max)			A	–	7.1	9.9	13.9	15.2
Indoor Unit	Input	Rated	kW	0.027	0.027	0.027	0.034	0.040
	Operating Current(Max)		A	0.3	0.3	0.3	0.4	0.4
	Dimensions	H*W*D	mm	307-890-233	307-890-233	307-890-233	307-890-233	307-890-233
	Weight		kg	14.5 (W) 15.5 (V, R, B)	14.5 (W) 15.5 (V, R, B)	14.5 (W) 15.5 (V, R, B)	15 (W) 16 (V, R, B)	15 (W) 16 (V, R, B)
	Air Volume (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	m^3/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 - 15.7
		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 - 15.7
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46	29 - 37 - 41 - 45 - 49
		Heating	dB(A)	19 - 24 - 29 - 38 - 45	19 - 24 - 29 - 38 - 45	19 - 24 - 29 - 38 - 45	25 - 29 - 34 - 39 - 47	29 - 37 - 41 - 45 - 49
	Sound Level (PWL)	Cooling	dB(A)	58	58	59	60	65
Outdoor Unit	Dimensions	H*W*D	mm	–	550-800-285	550-800-285	714-800-285	880-840-330
	Weight		kg	–	33	34	40	53
	Air Volume	Cooling	m^3/min	–	34.3	34.3	40.0	48.8
		Heating	m^3/min	–	32.7	32.7	40.5	55.0
	Sound Level (SPL)	Cooling	dB(A)	–	46	49	51	55
		Heating	dB(A)	–	49	50	54	55
	Sound Level (PWL)	Cooling	dB(A)	–	60	61	64	65
	Operating Current (Max)		A	–	6.8	9.6	13.5	14.8
	Breaker Size		A	–	10	10	16	16
Ext. Piping	Diameter	Liquid/Gas	mm	–	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length	Out-In	m	–	20	20	30	30
	Max.Height	Out-In	m	–	12	12	12	15
Guaranteed Operating Range (Outdoor)		Cooling	°C	–	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	–	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 for heating (warmer season) specifications.

MSZ-LN VGHZ SERIES

R32 | DC Inverter | Joint Lap | DC Fan Motor | PAM | Grooved Piping | 25/35 SEER | 25/35 SCOP

Indoor Unit / Remote Controller

GOOD DESIGN AWARD 2016 BEST 100

<Pearl White>

MSZ-LN25/35/50VG2V

<Ruby Red>

MSZ-LN25/35/50VG2R

<Natural White>

MSZ-LN25/35/50VG2W

<Onyx Black>

MSZ-LN25/35/50VG2B

Outdoor Unit

MUZ-LN25/35VGHZ2

MUZ-LN50VGHZ2

3D i see Sensor | AREA | HUMAN | Econo Cool | AUTO VANE | Plasma Quad Plus | Dual Barrier Coating | V Blocking Filter (Optional) | Double Vane | SWING | SWING | AUTO | Circulator Mode | Weekly Timer | i save

ACO | Auto Restart | Low Temp Cooling | Optional | Group Control | Optional | M-NET connection | Optional | Wi-Fi Interface | MXZ connection 25/35 | 10°C | Indoor | Night | Back Light Remote | Cleaning free the rest | Flare connection | Self Diagnosis | Failure Recall

Type				Inverter Heat Pump		
Indoor Unit				MSZ-LN25VG2(W)(V)(R)(B)	MSZ-LN35VG2(W)(V)(R)(B)	MSZ-LN50VG2(W)(V)(R)(B)
Outdoor Unit				MUZ-LN25VGHZ2	MUZ-LN35VGHZ2	MUZ-LN50VGHZ2
Refrigerant				R32 (*1)		
Power Supply	Source			Outdoor Power supply		
	Outdoor (V/Phase/Hz)			230/Single/50		
Cooling	Design Load		kW	2.5	3.5	5.0
	Annual Electricity Consumption (*2)		kWh/a	83	130	230
	SEER (*4)			10.5	9.4	7.6
		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
Heating (Average Season)(*5)	Design Load		kW	3.2 (–10°C)	4.0 (–10°C)	6.0 (–10°C)
	Declared Capacity	at reference design temperature	kW	3.2 (–10°C)	4.0 (–10°C)	6.0 (–10°C)
		at bivalent temperature	kW	3.2 (–10°C)	4.0 (–10°C)	6.0 (–10°C)
		at operation limit temperature	kW	2.3 (–25°C)	3.1 (–25°C)	4.7 (–25°C)
	Back Up Heating Capacity		kW	0.0 (–10°C)	0.0 (–10°C)	0.0 (–10°C)
	Annual Electricity Consumption (*2)		kWh/a	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
Operating Current (max)			A	9.9	10.5	15.2
Indoor Unit	Input	Rated	kW	0.027	0.027	0.034
	Operating Current (max)		A	0.3	0.3	0.4
	Dimensions	H*W*D	mm	307 - 890 - 233	307 - 890 - 233	307 - 890 - 233
	Weight		kg	15.5	15.5	15.5
	Air Volume (SLo-Lo-Mid-Hi-SHi (*3))	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
		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) (SLo-Lo-Mid-Hi-SHi (*3))	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46
		Heating	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47
	Sound Level (PWL)		dB(A)	58	58	60
Outdoor Unit	Dimensions	H*W*D	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330
	Weight		kg	35	36	53
	Air Volume	Cooling	m^3/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 (max)		A	9.6	10.2	14.8
	Breaker Size		A	10	12	16
Ext. Piping	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52
	Max. Length	Out-In	m	20	20	30
	Max. Height	Out-In	m	12	12	15
Guaranteed Operating Range [Outdoor]		Cooling	℃	–10 ~ +46	–10 ~ +46	–10 ~ +46
		Heating	℃	–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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 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.

R32
Single / Multi

R410A
Multi

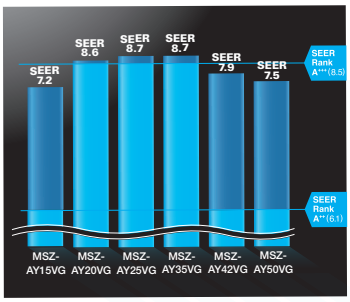
MSZ-AY15/20VGK(P)

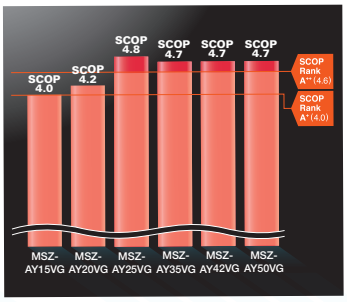
MSZ-AY25/35/42/50VGK(P)

High Energy Saving

25/35 SEER
25-50 SCOP

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.

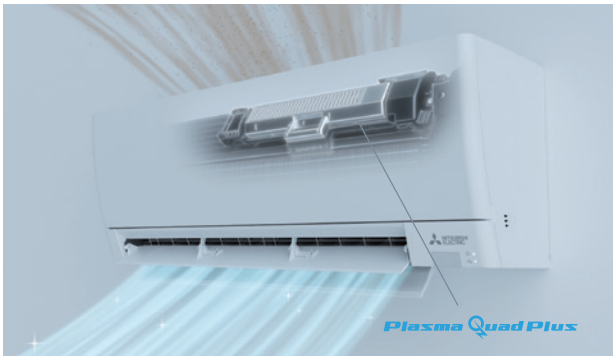
Widely Ranged Capacities

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)

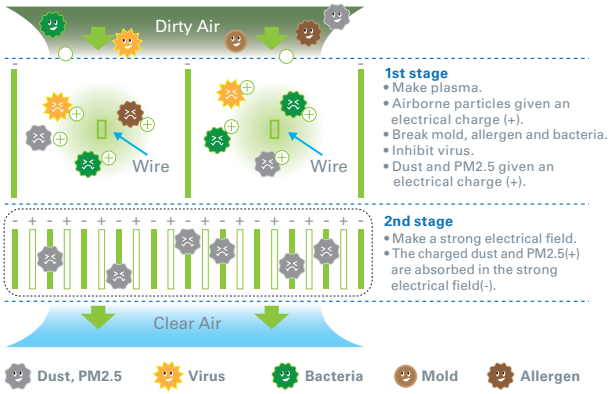
MSZ-AY15/20VGK(P)

Plasma Quad Plus (only VGKP model)



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.



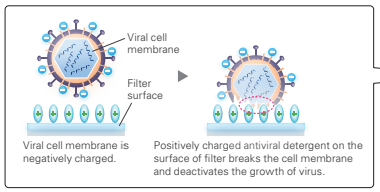
We have confirmed Plasma Quad Plus inhibits 99% of adhered COVID-19.

*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 (only VGK model)

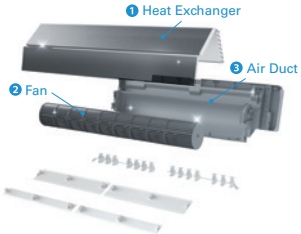
"V Blocking Filter" with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



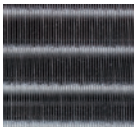
*Virus Test method: JIS L 1922, Tested Organization: Guangdong Detection Center of Microbiology, Test Report No: 2020FM30156R02D, Test result: 99% neutralized in 24 hours in a Testing Container.
Bacteria Test method: JIS L 1902, Tested Organization: Boken Quality Evaluation Institute, Test Report No: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

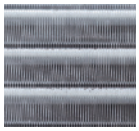
Mitsubishi Electric's Dual Barrier Coating prevents dust and greasy dirt from accumulating on the inner surface of the indoor unit, keeping your air conditioner clean. Hydrophilic material resists oil stains and hydrophobic material resists dust stains.



1 Heat Exchanger



No Dual Barrier Coating used (Image after 10years)



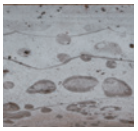
Dual Barrier Coating used

2 Fan

No Dual Barrier Coating used (Image after 10years)

Dual Barrier Coating used

3 Air Duct



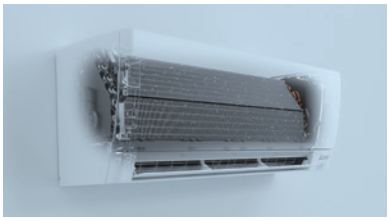
No Dual Barrier Coating used (Image after 10years)

Dual Barrier Coating used

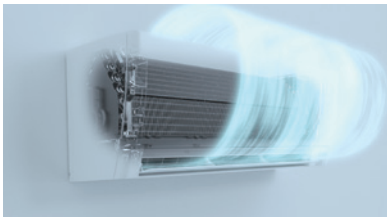
Self Clean

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.



2 Airflow operation suppresses mycelial growth.



3 Maintains clean unit interior.

*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)

*Image is for illustration purposes.

Quietness 18dB

Noiseless 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.

Night Mode

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

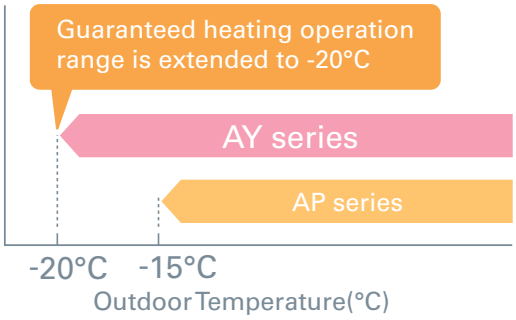
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will be 3dB lower than the rated operating noise specification.

*The cooling/heating capacity may drop.

Wider Heating Operation Range

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

Wider Heating Operation Range



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.

Standard Units

MUZ-AY25/35/42VG

MUZ-AY50VG

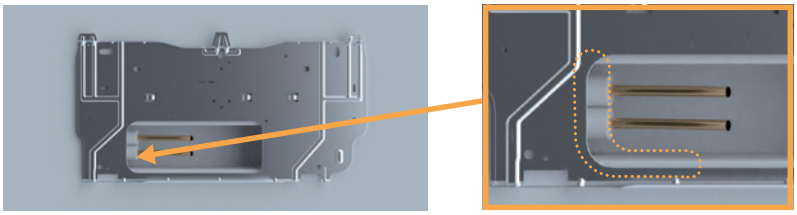
Heater-equipped Units

MUZ-AY25/35/42VGH

MUZ-AY50VGH

Back Plate with a Hole

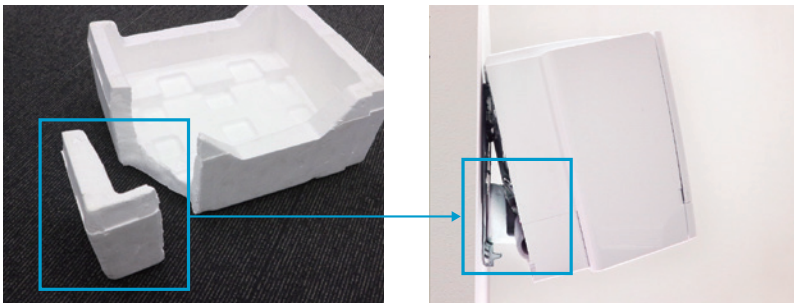
With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.



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

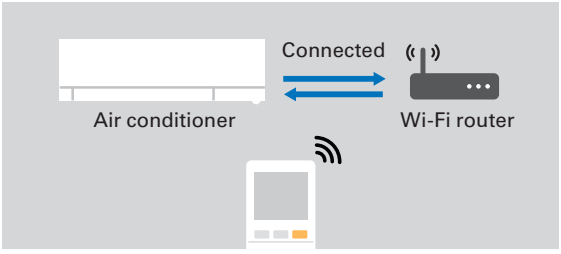
Indoor unit is equipped with Wi-Fi interface which allows you to access MELCloud app, providing you with a flexible control of air conditioner on your smartphone, tablets, and PC.

[key control and monitoring features]

- On/Off
- Check and set driving conditions
- 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.

MSZ-AP SERIES

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

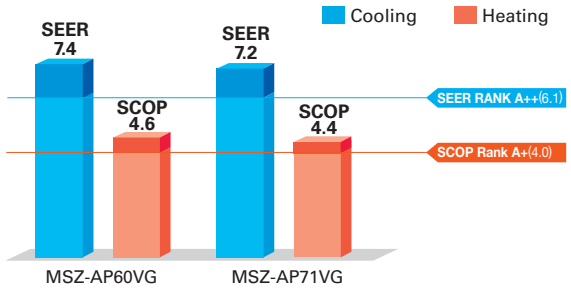
MSZ-AP60/71VG

R32
Single / Multi
R410A
Multi

High Energy Saving

20 SEER A^{+++} A^{++} A^{+} A B C D
60 SCOP A^{++} A^{+} A B C D

MSZ-AP60/71VG, 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.



Large Capacity Model

Suitable model for large rooms.

Wide and Long Airflow

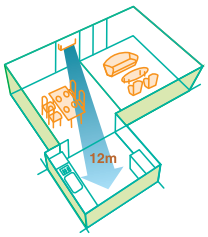
The wide and long airflow function is especially beneficial for large spaces, helping to ensure that air is well circulated and reaches every corner of the room.

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.

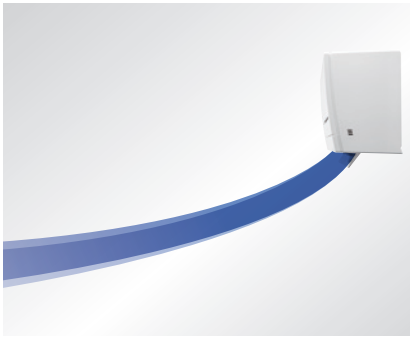
Long Airflow

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.



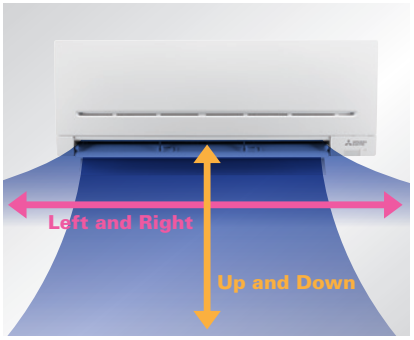
Evolved Comfortable Convenience Function

Horizontal Airflow



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

Auto Vane Control



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

The Function

"Weekly Timer"

Weekly Timer

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

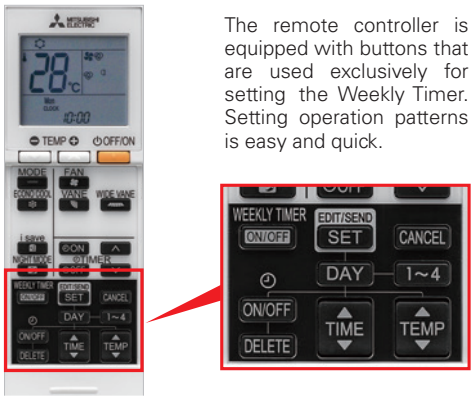
■ Example Operation Pattern (Winter/Heating mode)

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

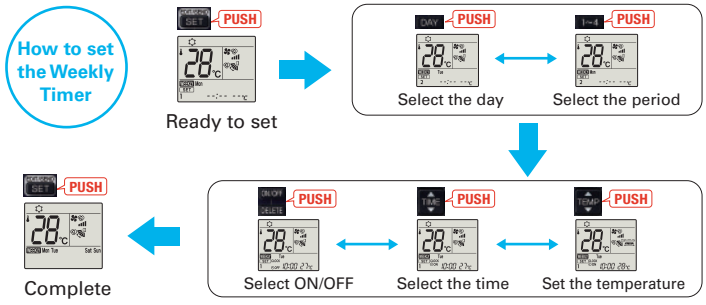
Settings

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

■ Easy set-up using dedicated buttons



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



- 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 Lap | DC Fan Motor | PAM | Grooved Piping | SEER | SCOP

Indoor Unit R32 R410A

MSZ-AY15/20VGK(P)

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

Outdoor Unit R32

MUZ-AY15VG

MUZ-AY20VG

MUZ-AY25/35/42VG(H)

MUZ-AY50VG(H)

Remote Controller

Circulator -SC Only | Econo Cool -E, -ET, -ER Only | Plasma Quad Plus VGKP Only | Air Purifying | V Blocking Filter VGK Only | Self Clean Mode | Dual Barrier Coating | AUTO VANE | SWING | SWING 25-50 only | AUTO | Night | Back Light Remote | Weekly Timer | i save

ACO | Auto Restart | Low Temp Cooling | Optional | Group Control Optional | M-NET connection Optional | Wi-Fi Interface | MXZ connection | 10°C | Indoor | Cleaning-free, pipe reuse | Flare connection | Self Diagnosis | Failure Recall

Type				Inverter Heat Pump									
Indoor Unit				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 Unit				MUZ-AY15VG	MUZ-AY20VG	MUZ-AY25VG	MUZ-AY25VGH	MUZ-AY35VG	MUZ-AY35VGH	MUZ-AY42VG	MUZ-AY42VGH	MUZ-AY50VG	MUZ-AY50VGH
Refrigerant				R32(*1)									
Power Supply	Source			Outdoor Power supply									
	Outdoor (V / Phase / Hz)			230/Single/50									
Cooling	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
		Energy efficiency class		A++	A+++	A+++	A+++	A+++	A+++	A++	A++	A++	A++
	Capacity	Rated	kW	1.5	2.0	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
		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
Heating (Average Season)(*5)	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)
	Declared Capacity	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)
		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)
		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 capacity		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption (*2)		kWh/a	558	766	697	709	863	880	1131	1146	1248	1265
	SCOP (*4)			4.0	4.2	4.8	4.7	4.7	4.6	4.7	4.6	4.7	4.6
		Energy efficiency class		A+	A+	A++	A++	A++	A++	A++	A++	A++	A++
	Capacity	Rated	kW	2.0	2.5	3.2	3.2	4.0	4.0	5.2	5.2	5.5	5.5
		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
Operating Current (Max)			A	5.5	7.0	7.6	7.6	7.6	7.6	9.9	9.9	13.8	13.8
Indoor Unit	Input	Rated	kW	0.017	0.019	0.026	0.026	0.026	0.026	0.032	0.032	0.032	0.032
	Operating Current (Max)		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		kg	VGKP 9.1, VGK 8.9	VGKP 9.1, VGK 8.9	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5	VGKP:11, VGK:10.5
	Air Volume (SLo-Lo-Mid-Hi-SHi(*3))	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- 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 - 11.7
		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	4.4 - 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 - 12.9
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	dB(A)	19(*6) - 26 - 30 - 35 - 40	19(*6) - 26 - 30 - 35 - 42	18 - 24 - 30 - 36 - 42	18 - 24 - 30 - 36 - 42	18 - 24 - 30 - 36 - 42	18 - 24 - 30 - 36 - 42	21 - 29 - 34 - 38 - 42	21 - 29 - 34 - 38 - 42	28 - 33 - 36 - 40 - 44	28 - 33 - 36 - 40 - 44
		Heating	dB(A)	19(*6) - 26 - 30 - 35 - 40	19(*6) - 26 - 30 - 35 - 42	18 - 24 - 34 - 39 - 45	18 - 24 - 34 - 39 - 45	18 - 24 - 31 - 38 - 45	18 - 24 - 31 - 38 - 45	21 - 29 - 35 - 40 - 45	21 - 29 - 35 - 40 - 45	28 - 33 - 38 - 43 - 48	28 - 33 - 38 - 43 - 48
	Sound Level (PWL)	Cooling	dB(A)	54	57	57	57	57	57	57	57	58	58
Outdoor Unit	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
	Air Volume	Cooling	m^3/min	26	32.2	32.2	32.2	32.2	32.2	32	32	40.5	40.5
		Heating	m^3/min	21	29.8	29.8	29.8	29.8	29.8	28.1	28.1	37.4	37.4
	Sound Level (SPL)	Cooling	dB(A)	45	47	47	47	49	49	50	50	52	52
		Heating	dB(A)	45	48	48	48	50	50	51	51	52	52
	Sound Level (PWL)	Cooling	dB(A)	58	59	59	59	61	61	61	61	64	64
	Operating Current (Max)		A	5.3	6.8	7.3	7.3	7.3	7.3	9.6	9.6	13.5	13.5
	Breaker Size		A	10	10	10	10	10	10	10	10	16	16
Ext. Piping	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	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
	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
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-15 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 for heating (warmer season) specifications.
(*6) For single use: only 19dB(A), For multi use (MXZ): 21dB(A).

MSZ-AP SERIES

Joint Lap | DC Fan Motor | PAM | Grooved Piping | SEER | SCOP

Indoor Unit R32 R410A

※VGK model Wi-Fi Interface built-in.

MSZ-AP60/71VG(K)

Outdoor Unit R32

MUZ-AP60VG

MUZ-AP71VG2

Remote Controller

Econo Cool | Natural White | AUTO VANE | V Blocking Filter | Air Purifying | SWING | SWING | AUTO | WIDE&LONG (60/71) | Weekly Timer | | i save | ACO | Auto Restart | Low Temp Cooling | (Optional)

Group Control (Optional) | M-NET connection (Optional) | Wi-Fi Interface (VGK model) | MXZ connection | 20 10°C | (Indoor) | Night | Back Light Remote | Cleaning-free, pipe reuse | Flare connection | Self Diagnosis | Failure Recall

Type				Inverter Heat Pump	
Indoor Unit				MSZ-AP60VG(K)	MSZ-AP71VG(K)
Outdoor Unit				MUZ-AP60VG	MUZ-AP71VG
Refrigerant				Single: R32(*1) / Multi: R32(*1)	
Power Supply	Source			Outdoor Power supply	
	Outdoor (V / Phase / Hz)			230 / Single / 50	
Cooling	Design load		kW	6.1	7.1
	Annual electricity consumption (*2)		kWh/a	288	345
	SEER (*4)			7.4	7.2
		Energy efficiency class		A++	A++
	Capacity	Rated	kW	6.1	7.1
		Min-Max	kW	1.4-7.3	2.0-8.7
	Total Input	Rated	kW	1.590	2.010
Heating (Average Season)(*5)	Design load		kW	4.6 (-10°C)	6.7 (-10°C)
	Declared Capacity	at reference design temperature	kW	4.6 (-10°C)	6.7 (-10°C)
		at bivalent temperature	kW	4.6 (-10°C)	6.7 (-10°C)
		at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)
	Back up heating capacity		kW	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption (*2)		kWh/a	1398	2126
	SCOP (*4)			4.6	4.4
		Energy efficiency class		A++	A+
	Capacity	Rated	kW	6.8	8.1
		Min-Max	kW	2.0-8.6	2.2-10.3
	Total Input	Rated	kW	1.670	2.120
Operating Current (Max)			A	14.1	16.4
Indoor Unit	Input	Rated	kW	0.049	0.045
	Operating Current (Max)		A	0.5	0.4
	Dimensions	H*W*D	mm	325-1100-257	325-1100-257
	Weight		kg	16.0	17.0
	Air Volume (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	m^3/min	9.4 - 11.0 - 13.2 - 16.0 - 18.9	9.6 - 11.5 - 13.2 - 15.3 - 18.6
		Heating	m^3/min	10.8- 13.4 - 15.4 - 17.4 - 20.3	10.2- 11.5 - 13.2 - 15.3 - 19.2
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	dB(A)	29 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 49
		Heating	dB(A)	30 - 37 - 41 - 45 - 48	30 - 37 - 41 - 45 - 51
	Sound Level (PWL)	Cooling	dB(A)	65	65
Outdoor Unit	Dimensions	H*W*D	mm	714-800-285	880-840-330
	Weight		kg	40	53
	Air Volume	Cooling	m^3/min	52.1	63.7
		Heating	m^3/min	52.1	57.7
	Sound Level (SPL)	Cooling	dB(A)	56	56
		Heating	dB(A)	57	55
	Sound Level (PWL)	Cooling	dB(A)	69	69
	Operating Current (Max)		A	13.6	16.0
	Breaker Size		A	16	20
Ext. Piping	Diameter	Liquid/Gas	mm	6.35 / 12.7	6.35 / 12.7
	Max.Length	Out-In	m	30	30
	Max.Height	Out-In	m	15	15
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46
		Heating	°C	-15 ~ +24	-15 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 for heating (warmer season) specifications.

KIRIGAMINE 禅 ZEN

MSZ-E SERIES

R32 Single / Multi

R410A Multi

MSZ-EF18-50VGB

GOOD DESIGN AWARD 2014

reddot award 2015 winner

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

Stylish Line-up Matches Any Room Décor

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

Energy-efficient Operation

DC Inverter

25-35 SEER A+++ A++ A+ D

25-42* SCOP A+++ A++ A+ D

*except for VEH

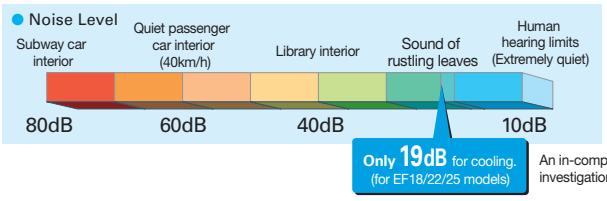
All models in the series have achieved high energy-savings rating, and are contributing to reduced energy consumption in homes, offices and a range of other settings. Offered in a variety of output capacities and installation patterns, the vast applicability promises an ideal match for any user.

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

*VEH

Quiet Comfort All Day Long

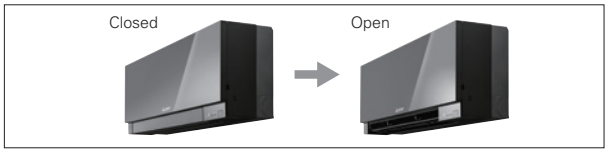
Mitsubishi Electric's advanced "Silent Mode" fan speed setting provides super-quiet operation as low as 19dB for EF18/22/25 models for cooling. This unique feature makes the Kirigamine ZEN series ideal for use in any situation.



An in-company investigation

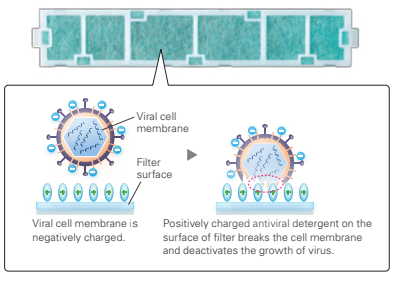
Superior Exterior and Operating Design Concept

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 (25/35)

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

Standard Units

MUZ-EF25/35VG

Heater-equipped Units

MUZ-EF25/35VGH

MSZ-E SERIES

Indoor Unit / Remote Controller

R32 R410A

White

MSZ-EF18/22/25/35/42/50VG(K)W

Silver

MSZ-EF18/22/25/35/42/50VG(K)S

Black

MSZ-EF18/22/25/35/42/50VG(K)B*

GOOD DESIGN AWARD 2015

reddot award 2015 winner

✻ Soft-dry Cloth is enclosed with Black models.
✻ VGK model Wi-Fi interface built-in

Outdoor Unit

R32

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

MUZ-EF50VG

Econo Cool · AUTO VANE · V Blocking Filter · Air Purifying · SWING · AUTO · Weekly Timer · i save · ACO · Auto Restart · Low Temp Cooling · Optional · Centralised On/Off · Optional · Group Control · Optional · Wi-Fi Interface · VGK model

MXZ connection · Back Light Remote · Cleaning-free pipe reuse · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump							
Indoor Unit				MSZ-EF18VG(K)	MSZ-EF22VG(K)	MSZ-EF25VG(K)	MSZ-EF25VG(K)	MSZ-EF35VG(K)	MSZ-EF35VG(K)	MSZ-EF42VG(K)	MSZ-EF50VG(K)
Outdoor Unit				for MXZ connection		MUZ-EF25VG	MUZ-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH	MUZ-EF42VG	MUZ-EF50VG
Refrigerant				R32(*1)							
Power Supply	Source			Outdoor Power supply							
	Outdoor (V / Phase / Hz)			230/Single/50							
Cooling	Design load		kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0
	Annual electricity consumption (*2)		kWh/a	-	-	96	96	139	139	186	233
	SEER (*4)			-	-	9.1	9.1	8.8	8.8	7.9	7.5
		Energy efficiency class		-	-	A+++	A+++	A+++	A+++	A++	A++
	Capacity	Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0
		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
Heating (Average Season)(*5)	Design load		kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
	Declared Capacity	at reference design temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
		at bivalent temperature	kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)
		at operation limit temperature	kW	-	-	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)	3.4 (-15°C)	3.5 (-15°C)
	Back up heating capacity		kW	-	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption (*2)		kWh/a	-	-	713	727	882	900	1151	1304
	SCOP (*4)			-	-	4.7	4.6	4.6	4.5	4.6	4.5
		Energy efficiency class		-	-	A++	A++	A++	A+	A++	A+
	Capacity	Rated	kW	-	-	3.2	3.2	4.0	4.0	5.4	5.8
		Min-Max	kW	-	-	1.0-4.2	1.0-4.2	1.3-5.1	1.3-5.1	1.3-6.3	1.4-7.5
	Total Input	Rated	kW	-	-	0.700	0.700	0.950	0.950	1.455	1.560
Operating Current (Max)			A	-	-	7.1	7.1	7.1	7.1	10.0	14
Indoor Unit	Input	Rated	kW	0.026	0.026	0.026	0.026	0.030	0.030	0.033	0.043
	Operating Current (Max)		A	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
	Dimensions	H*W*D	mm	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195	299-885-195
	Weight		kg	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
	Air Volume (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	m³/min	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	4.0 - 4.6 - 6.3 - 8.3 - 10.5	5.8 - 6.6 - 7.7 - 8.9 - 11.2	5.8 - 6.8 - 7.9 - 9.2 - 11.3
		Heating	m³/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	5.5 - 6.3 - 7.8 - 9.9 - 13.2	6.4 - 7.2 - 9.0 - 11.1 - 14.6
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi(*3))	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	21 - 24 - 30 - 36 - 42	21 - 24 - 30 - 36 - 42	28 - 31 - 35 - 39 - 43	30 - 33 - 36 - 40 - 43
		Heating	dB(A)	21 - 24 - 29 - 37 - 45	21 - 24 - 29 - 37 - 45	21 - 24 - 29 - 37 - 45	21 - 24 - 29 - 37 - 45	21 - 24 - 30 - 38 - 46	21 - 24 - 30 - 38 - 46	28 - 30 - 35 - 41 - 48	30 - 33 - 37 - 43 - 49
	Sound Level (PWL)	Cooling	dB(A)	60	60	60	60	60	60	60	60
Outdoor Unit	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285	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
		Heating	m³/min	-	-	29.8	29.8	32.7	32.7	32.7	40.2
	Sound Level (SPL)	Cooling	dB(A)	-	-	47	47	49	49	50	52
		Heating	dB(A)	-	-	48	48	50	50	51	52
	Sound Level (PWL)	Cooling	dB(A)	-	-	58	58	62	62	62	65
	Operating Current (Max)		A	-	-	6.8	6.8	6.8	6.8	9.6	13.6
	Breaker Size		A	-	-	10	10	10	10	12	16
Ext. Piping	Diameter	Liquid/Gas	mm	-	-	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Max.Length	Out-In	m	-	-	20	20	20	20	20	30
	Max.Height	Out-In	m	-	-	12	12	12	12	12	15
Guaranteed Operating Range (Outdoor)		Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-	-	-15 ~ +24	-20 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 for heating (warmer season) specifications.

FT VGHZ SERIES

R32 Single / Multi

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.

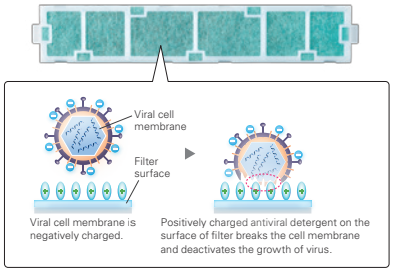
MSZ-FT25/35/50VG(K)

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 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.

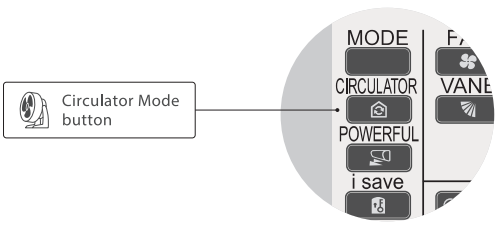


Remote Controller with Backlight

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.



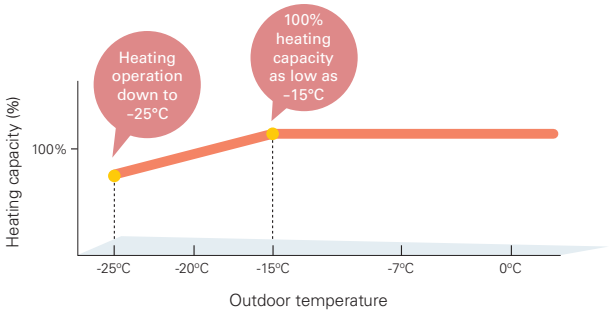
Built-in Wi-Fi

(MSZ-FT25/35/50VGK)

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

Hyper Heating

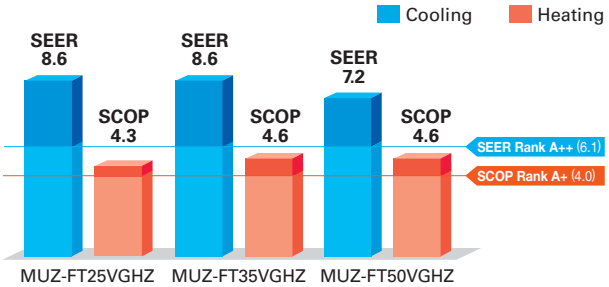
Mitsubishi Electric's powerful compressor and highly cold-resistant parts enable the heat pump to provide 100% or more heating capacity even at –15°C, and also the heating operation is guaranteed down to –25°C.



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

DC Inverter

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)

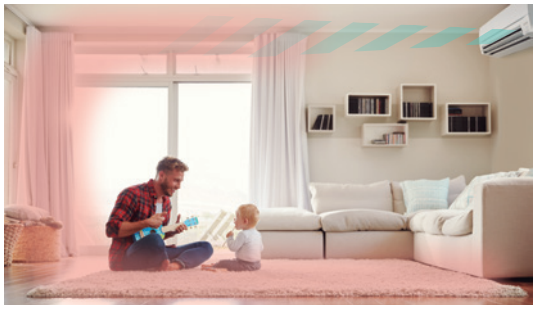


*Image is for illustration purposes.

MSZ-FT VGHZ SERIES

DC Inverter · Joint Lap · DC Fan Motor · PAM · Grooved Piping · 25-35 SEER · 25-35 SCOP

Indoor Unit

MSZ-FT25/35/50VG(K)

Outdoor Unit

MUZ-FT25VGHZ　　MUZ-FT35/50VGHZ

Remote Controller

Econo Cool (-E / -ET Only) · V Blocking Filter · Air Purifying · SWING · SWING · AUTO · Circulator Mode · Weekly Timer · i save · ACO · Auto Restart · Low Temp Cooling · Optional · Group Control · Optional · M-NET connection · Optional

Wi-Fi Interface (VGK Only) · 10°C · Indoor · Night · Back Light Remote · Cleaning-free pipe route · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump		
Indoor Unit				MSZ-FT25VG(K)	MSZ-FT35VG(K)	MSZ-FT50VG(K)
Outdoor Unit				MUZ-FT25VGHZ	MUZ-FT35VGHZ	MUZ-FT50VGHZ
Refrigerant				R32 (*1)		
Power Supply	Source			Outdoor power supply		
	Outdoor (V/Phase/Hz)			230 / Single / 50		
Cooling	Design Load		kW	2.5	3.5	5.0
	Annual Electricity Consumption (*2)		kWh/a	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
Heating (Average Season)(*5)	Design Load		kW	3.2 (–10°C)	4.0 (–10°C)	5.0 (–10°C)
	Declared Capacity	at reference design temperature	kW	3.2 (–10°C)	4.0 (–10°C)	5.0 (–10°C)
		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 Capacity		kW	0.0 (–10°C)	0.0 (–10°C)	0.0 (–10°C)
	Annual Electricity Consumption (*2)		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	kW	0.9 - 6.2	0.9 - 6.6	0.9 - 7.8
	Total Input	Rated	kW	0.760	1.020	1.300
Operating Current (max)			A	10.0	11.6	13.9
Indoor Unit	Input	Rated	kW	0.039	0.04	0.047
	Operating Current (max)		A	0.4		
	Dimensions	H*W*D	mm	280 - 838 - 229		
	Weight		kg	10		
	Air Volume (SLo-Lo-Mid-Hi-SHi (*3))	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
		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) (SLo-Lo-Mid-Hi-SHi (*3))	Cooling	dB(A)	19 - 27 - 36 - 41 - 46	19 - 27 - 36 - 42 - 47	28 - 34 - 40 - 45 - 48
		Heating	dB(A)	19 - 31 - 39 - 46 - 49	19 - 33 - 42 - 49 - 52	28 - 36 - 45 - 51 - 54
	Sound Level (PWL)		dB(A)	60		
Outdoor Unit	Dimensions	H*W*D	mm	550 - 800 - 285	714 - 800 - 285	714 - 800 - 285
	Weight		kg	34	40	40
	Air Volume	Cooling	m^3/min	30.4	40.2	40.2
		Heating	m^3/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 (max)		A	9.6	11.2	13.5
	Breaker Size		A	12	12	16
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Max. Length	Out-In	m	20	30	30
	Max. Height	Out-In	m	12	15	15
Guaranteed Operating Range [Outdoor]		Cooling	°C	–10 ~ +46	–10 ~ +46	–10 ~ +46
		Heating	°C	–25 ~ +24	–25 ~ +24	–25 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 for heating (warmer season) specifications.

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

R32
Single / Multi

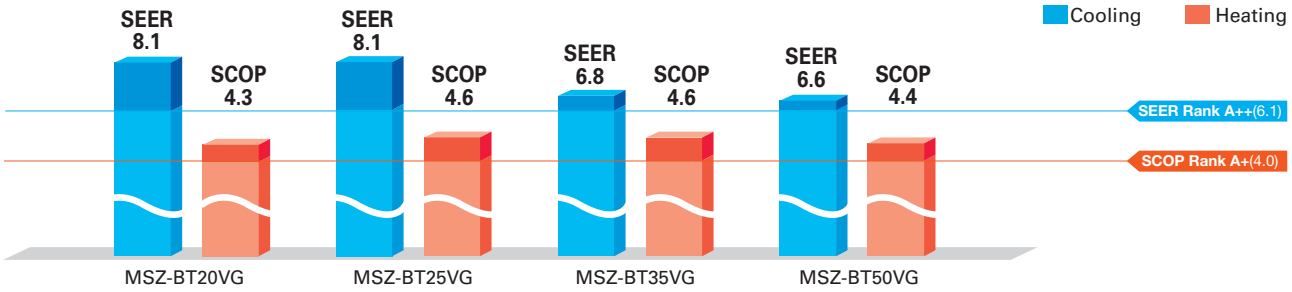
MSZ-BT SERIES

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

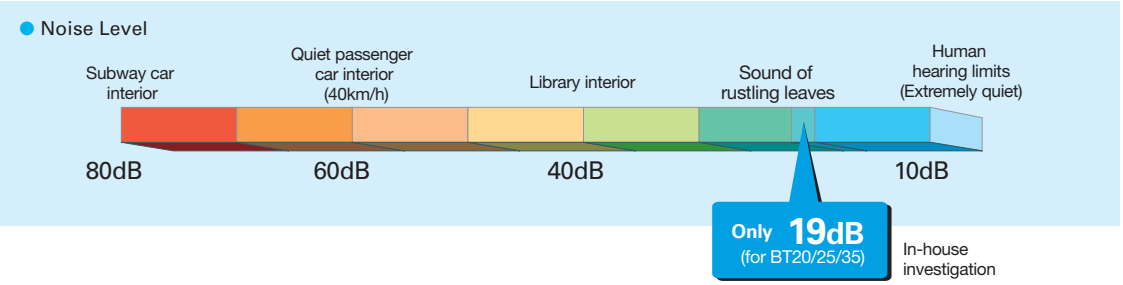
DC Inverter
20-50 SEER A+++ A++ A+
25 / 35 SCOP A+++ A++ A+

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.



Quiet Operation

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

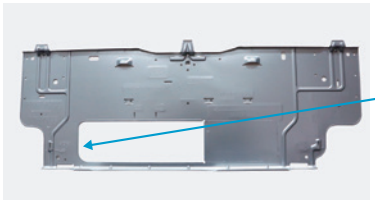


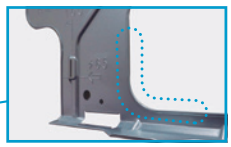
New Remote Controller

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

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.

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

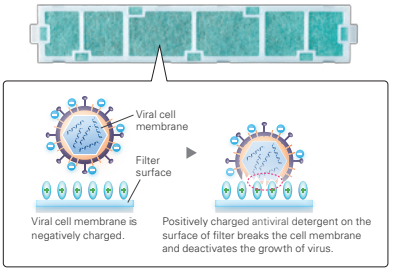
Wi-Fi Interface

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

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.



MSZ-BT SERIES

DC Inverter · Joint Lap · DC Fan Motor · PAM · Grooved Piping · 20-50 SEER · 25 / 35 SCOP

Indoor Unit R32

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

Outdoor Unit

MUZ-BT20VG

MUZ-BT25/35VG

MUZ-BT50VG

Remote Controller

Econo Cool · Natural White · AUTO VANE · V Blocking Filter · Air Purifying · SWING · AUTO · Auto Restart · Low Temp Cooling · Optional · Centralised On/Off · Optional · Group Control · Optional* Only VGK model · Wi-Fi Interface · VGK Only · MXZ connection · Indoor

Night · Cleaning-free, pipe reuse · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump			
Indoor Unit				MSZ-BT20VG(K)	MSZ-BT25VG(K)	MSZ-BT35VG(K)	MSZ-BT50VG(K)
Outdoor Unit				MUZ-BT20VG	MUZ-BT25VG	MUZ-BT35VG	MUZ-BT50VG
Refrigerant				R32(*1)			
Power Supply	Source			Outdoor Power supply			
	Outdoor (V / Phase / Hz)			230V/Single/50Hz			
Cooling	Design load		kW	2.0	2.5	3.5	5.0
	Annual electricity consumption (*2)		kWh/a	86	108	180	265
	SEER (*4)			8.1	8.1	6.8	6.6
		Energy efficiency class		A++	A++	A++	A++
	Capacity	Rated	kW	2.0	2.5	3.5	5.0
		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
Heating (Average Season)(*5)	Design load		kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Declared Capacity	at reference design temperature	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
		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)
	Back up heating capacity		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption (*2)		kWh/a	487	577	727	1209
	SCOP (*4)			4.3	4.6	4.6	4.4
		Energy efficiency class		A+	A++	A++	A+
	Capacity	Rated	kW	2.5	3.15	3.6	5.4
		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
Operating Current (Max)			A	5.6	7.0	7.0	10.0
Indoor Unit	Input	Rated	kW	0.024	0.024	0.031	0.037
	Operating Current(Max)		A	0.25	0.25	0.31	0.35
	Dimensions	H*W*D	mm	280-838-235	280-838-235	280-838-235	280-838-235
	Weight		kg	9	9	9	9
	Air Volume (Lo-Mid-Hi-SHi(*3))	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
		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) (Lo-Mid-Hi-SHi(*3))	Cooling	dB(A)	19 - 22 - 30 - 37 - 43	19 - 22 - 30 - 37 - 43	19 - 22 - 31 - 38 - 46	29 - 33 - 36 - 40 - 46
		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
Outdoor Unit	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	m^3/min	30.3	32.2	32.2	30.4
		Heating	m^3/min	30.3	32.2	34.6	32.7
	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
Ext. Piping	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7
	Max.Length	Out-In	m	20	20	20	20
	Max.Height	Out-In	m	12	12	12	12
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

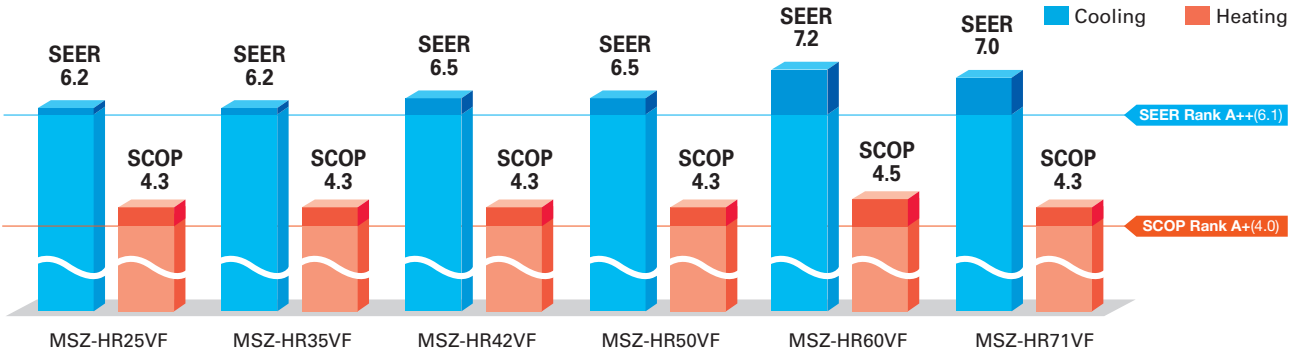
(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 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.

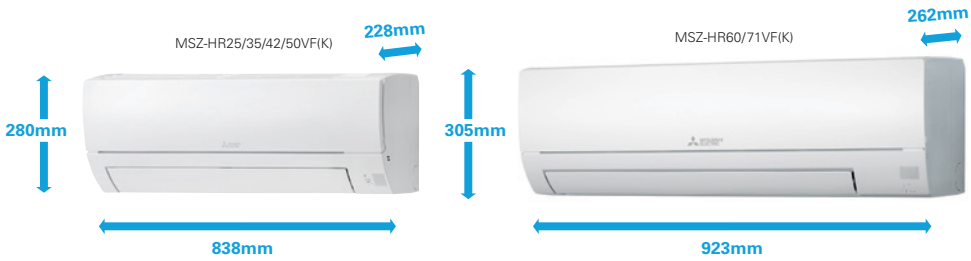
"Rank A++/A+" Energy Savings Achieved for Entire Range of Series

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.



Simple and Friendly Design

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

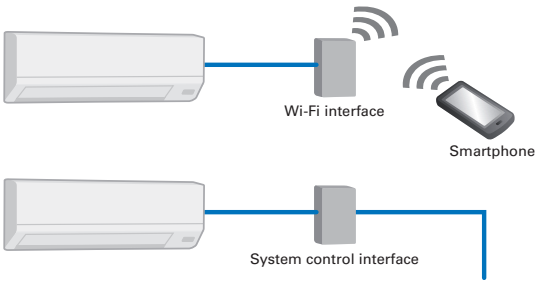


Wi-Fi and System Control

Wi-Fi Interface (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.

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



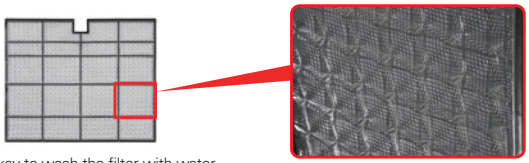
Back Plate with a Hole

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

DC Inverter · Joint Lap · DC Fan Motor · PAM · Grooved Piping · SEER · SCOP

Indoor Unit R32

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

MSZ-HR60/71VF(K)

Outdoor Unit

MUZ-HR25VF

MUZ-HR35VF

MUZ-HR42/50VF

MUZ-HR60/71VF

Remote Controller

Econo Cool · Natural White · AUTO VANE · V Blocking Filter (Optional) · Air Purifying · SWING · AUTO · Auto Restart · Low Temp Cooling · (Optional) · Centralised On/Off (Optional) · Group Control (Optional) · Wi-Fi Interface (VFK only) · MXZ connection (MXZ-HA only) · Cleaning-free pipe route

Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump					
Indoor Unit				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
Refrigerant				R32(*1)					
Power Supply	Source			Outdoor Power supply					
	Outdoor (V / Phase / Hz)			230V/Single/50Hz					
Cooling	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
		Energy efficiency class		A++	A++	A++	A++	A++	A++
	Capacity	Rated	kW	2.5	3.4	4.2	5.0	6.1	7.1
		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
Heating (Average Season)(*5)	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)
	Declared Capacity	at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)
		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)
		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 capacity		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption (*2)		kWh/a	614	781	928	1224	1430	1755
	SCOP (*4)			4.3	4.3	4.3	4.3	4.5	4.3
		Energy efficiency class		A+	A+	A+	A+	A+	A+
	Capacity	Rated	kW	3.15	3.6	4.7	5.4	6.8	8.1
		Min-Max	kW	0.7-3.5	0.9-3.7	0.9-5.4	1.4-6.5	1.5-8.5	1.5-9.0
	Total Input	Rated	kW	0.850	0.975	1.300	1.550	1.810	2.440
Operating Current (Max)			A	5.0	6.7	8.5	10.0	14.1	14.1
Indoor Unit	Input	Rated	kW	0.020	0.028	0.032	0.039	0.055	0.055
	Operating Current(Max)		A	0.2	0.27	0.3	0.36	0.5	0.5
	Dimensions	H*W*D	mm	280-838-228	280-838-228	280-838-228	280-838-228	305-923-262	305-923-262
	Weight		kg	8.5	8.5	9	9	12.5	12.5
	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 - 19.6
	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
		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
Outdoor Unit	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	550-800-285	714-800-285	714-800-285
	Weight		kg	23	22	32.5	34	40	40
	Air Volume	Cooling	m^3/min	30.3	32.2	30.4	30.4	42.8	42.8
		Heating	m^3/min	30.3	32.2	32.7	32.7	48.3	48.3
	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 Current (Max)		A	4.8	6.4	8.2	9.6	13.6	13.6
	Breaker Size		A	10	10	10	12	16	16
Ext. Piping	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7
	Max.Length	Out-In	m	20	20	20	20	30	30
	Max.Height	Out-In	m	12	12	12	12	15	15
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 for heating (warmer season) specifications.

R32

MSZ-DW SERIES

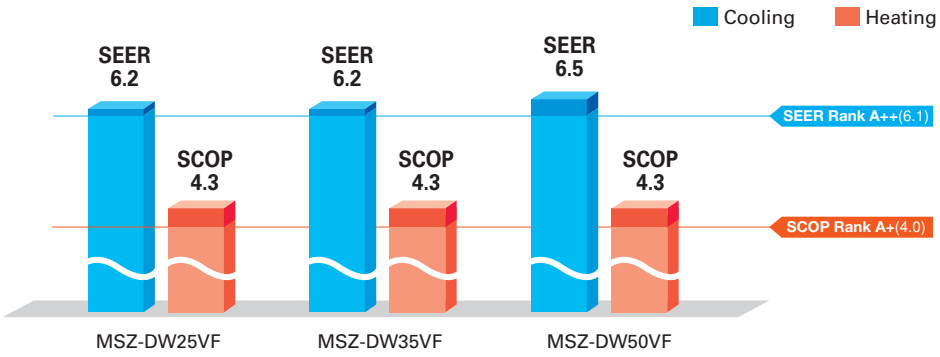
Introducing an indoor unit that is compact yet packed with a variety of features.
High energy saving performance and Air Purifying Filter bring you a comfortable indoor environment.

MSZ-DW25/35/50VF

Energy Saving

DC Inverter SEER SCOP

Mitsubishi Electric's inverter technologies are adopted to provide automatic adjustment of operation load according to need. This reduces excessive consumption of electricity, and thereby realises Energy Rank "A++" for SEER (cooling) and "A+" for SCOP (heating).



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.

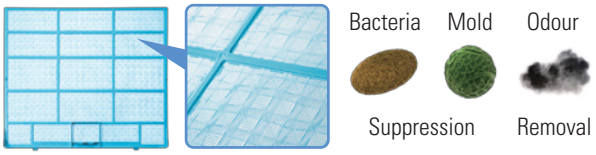
Simple Control

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

Air Purifying Filter

Air Purifying

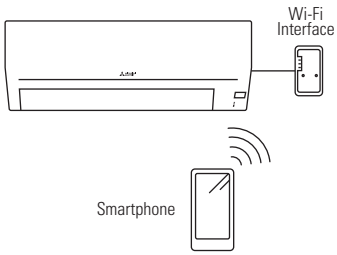
Air Purifying Filter generates stable antibacterial, antifungal, and deodorant effects. The three-dimensional surface expands the filter's capture area and contributes to the better dust collection performance than conventional filters.



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.



MELCloud™

MSZ-DW SERIES

DC Inverter · Joint Lap · DC Fan Motor · PAM · Grooved Piping · SEER · SCOP

Indoor Unit R32

MSZ-DW25/35/50VF

Outdoor Unit

MUZ-DW25VF

MUZ-DW35VF

MUZ-DW50VF

Remote Controller

Econo Cool · Natural White · AUTO VANE · V Blocking Filter (Optional) · Air Purifying · SWING · AUTO · Auto Restart · Low Temp Cooling · Optional · Centralised On/Off (Optional) · Group Control (Optional) · Wi-Fi Interface (Optional) · MXZ connection (MXZ-HA only) · Cleaning-free pipe route · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump		
Indoor Unit				MSZ-DW25VF	MSZ-DW35VF	MSZ-DW50VF
Outdoor Unit				MUZ-DW25VF	MUZ-DW35VF	MUZ-DW50VF
Refrigerant				R32(*1)		
Power Supply	Source			Outdoor Power supply		
	Outdoor (V / Phase / Hz)			230V/Single/50Hz		
Cooling	Design load		kW	2.5	3.4	5.0
	Annual electricity consumption (*2)		kWh/a	135	184	261
	SEER (*4)			6.2	6.2	6.5
		Energy efficiency class		A++	A++	A++
	Capacity	Rated	kW	2.5	3.4	5.0
		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
Heating (Average Season)(*5)	Design load		kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Declared Capacity	at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
		at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Back up heating capacity		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
	Annual electricity consumption (*2)		kWh/a	618	781	1174
	SCOP (*4)			4.3	4.3	4.3
		Energy efficiency class		A+	A+	A+
	Capacity	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
Operating Current (Max)			A	5.0	6.7	10.0
Indoor Unit	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		kg	9	9	10
	Air Volume (Lo-Mid-Hi-SHi(*3))	Cooling	m^3/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
		Heating	m^3/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) (Lo-Mid-Hi-SHi(*3))	Cooling	dB(A)	21 - 30 - 37 - 43	22 - 31 - 38 - 46	28 - 36 - 40 - 45
		Heating	dB(A)	21 - 30 - 37 - 43	21 - 30 - 37 - 44	27 - 34 - 41 - 47
	Sound Level (PWL)	Cooling	dB(A)	57	60	60
Outdoor Unit	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285
	Weight		kg	23	24	35
	Air Volume	Cooling	m^3/min	30.3	32.2	33.5
		Heating	m^3/min	30.3	32.2	32.7
	Sound Level (SPL)	Cooling	dB(A)	50	51	50
		Heating	dB(A)	50	51	51
	Sound Level (PWL)	Cooling	dB(A)	63	64	64
	Operating Current (Max)		A	5.3	7.0	9.2
	Breaker Size		A	10	10	12
Ext. Piping	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
	Max.Length	Out-In	m	20	20	20
	Max.Height	Out-In	m	12	12	12
Guaranteed Operating Range (Outdoor)		Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) Please see page 57-58 for heating (warmer season) specifications.

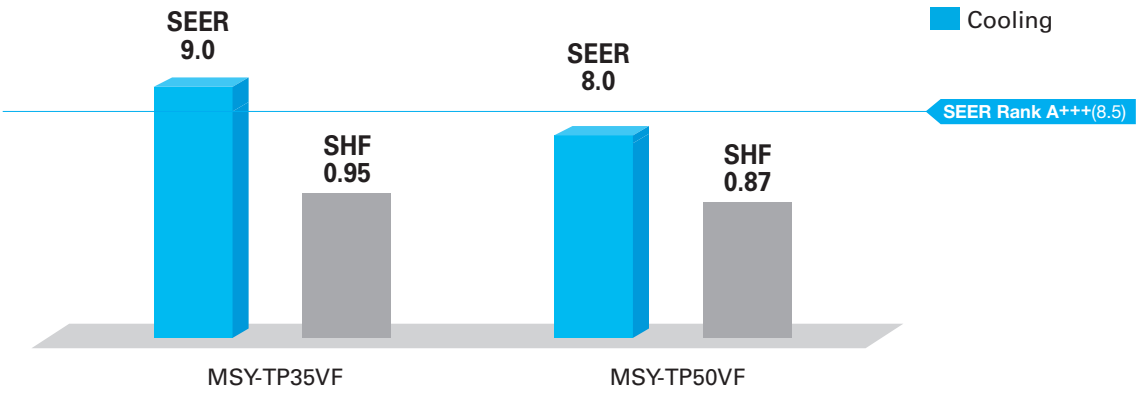
MSY-TP SERIES

R32

MSY-TP35/50VF

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.

MSY-TP SERIES

DC Inverter · Joint Lap · DC Fan Motor · PAM · Grooved Piping · 35 SEER

Indoor Unit R32

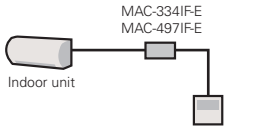
MSY-TP35/50VF

Outdoor Unit R32

MUY-TP35/TP50VF

Remote Controller

- Wired remote controller can be connected to indoor unit.



Pure White · AUTO VANE · Silver-ion (Optional) · SWING · AUTO · Auto Restart · Cleaning-free pipe route · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump	
Indoor Unit				MSY-TP35VF	MSY-TP50VF
Outdoor Unit				MUY-TP35VF	MUY-TP50VF
Refrigerant				R32 (*1)	
Power Supply	Source			Indoor Power supply	
	Outdoor (V / Phase / Hz)			230V / Single / 50Hz	
Cooling	Design load		kW	3.5	5.0
	Annual electricity consumption (*2)		kWh/a	136	218
	SEER (*4)			9.0	8.0
		Energy efficiency class		A+++	A++
	Capacity	Rated	kW	3.5	5.0
		Min-Max	kW	1.5 - 4.0	1.5 - 5.7
	Total Input	Rated	kW	0.760	1.450
Heating (Average Season)(*5)	Design load		kW	-	-
	Declared Capacity	at reference design temperature	kW	-	-
		at bivalent temperature	kW	-	-
		at operation limit temperature	kW	-	-
	Back up heating capacity		kW	-	-
	Annual electricity consumption (*2)		kWh/a	-	-
	SCOP (*4)			-	-
		Energy efficiency class		-	-
	Capacity	Rated	kW	-	-
		Min-Max	kW	-	-
	Total Input	Rated	kW	-	-
Operating Current (Max)			A	9.6	9.6
Indoor Unit	Input	Rated	kW	0.033	0.034
	Operating Current (Max)		A	0.4	0.4
	Dimensions	H*W*D	mm	305-923-250	305-923-250
	Weight		kg	12.5	12.5
	Air Volume (Lo-Mid-Hi-SHi(*3))	Cooling	m^3/min	10.1 - 11.6 - 13.7 - 16.4	10.1 - 11.6 - 13.7 - 16.4
		Heating	m^3/min	-	-
	Sound Level (SPL) (Lo-Mid-Hi-SHi(*3))	Cooling	dB(A)	31 - 36 - 40 - 45	31 - 36 - 40 - 45
		Heating	dB(A)	-	-
	Sound Level (PWL)	Cooling	dB(A)	60	60
	Breaker Size		A	10	10
Outdoor Unit	Dimensions	H*W*D	mm	550-800-285	550-800-285
	Weight		kg	34	34
	Air Volume	Cooling	m^3/min	29.3	29.3
		Heating	m^3/min	-	-
	Sound Level (SPL)	Cooling	dB(A)	45	47
		Heating	dB(A)	-	-
	Sound Level (PWL)	Cooling	dB(A)	58	61
	Operating Current (Max)		A	9.2	9.2
Ext. Piping	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52
	Max.Length	Out-In	m	20	20
	Max.Height	Out-In	m	12	12
Guaranteed Operating Range (Outdoor)		Cooling	℃	-25 ~ +46	-25 ~ +46
		Heating	℃	-	-

(*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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011.

MFZ-KT25/35/50/60VG

R32 R410A

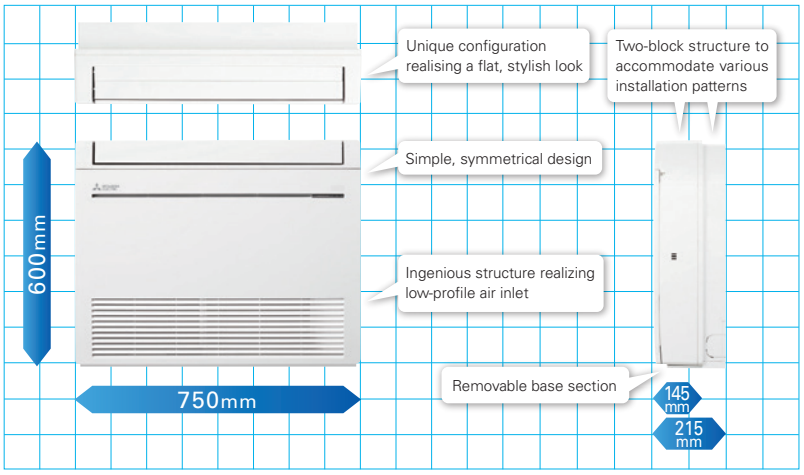
PUMY

MFZ SERIES

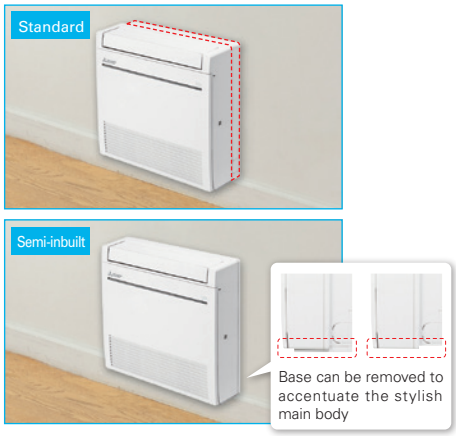
High Capacity, Energy Savings and a Design in Harmony with Living Spaces
Raise the Value of Your Room to the Next Level.

Simple, Flat Design

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



Images of installed unit



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	✓	✓	✓	
MFZ-KT	✓	✓	✓	✓

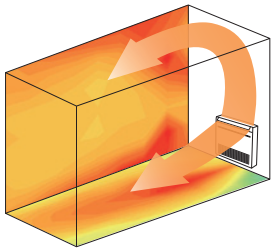
Multi-flow Vane

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

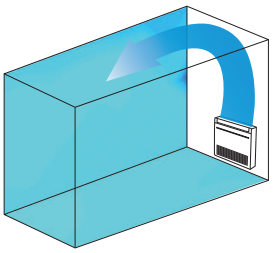
When heating

Rapid heating

Warm air is blown out in a downward direction and then sucked back into the unit to quickly raise the temperature of the air being blown out.



When cooling



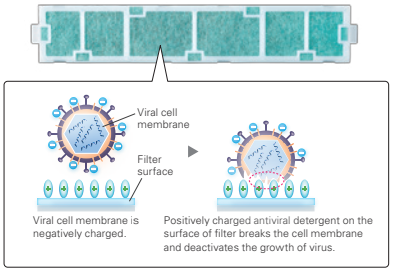
*The downward airflow is also possible as well as heating.

Weekly Timer (Introduced in Response to Market Demand)

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

V Blocking Filter

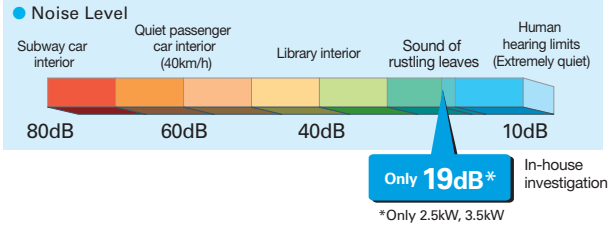
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



Quiet Operation

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

*Single connection only.



MFZ-KT SERIES

DC Inverter | DC Fan Motor | PAM | Grooved Piping | SEER | SCOP

Indoor Unit

R32 R410A

PUMY

MFZ-KT25/35/50/60VG

Outdoor Unit

R32

SUZ-M25/35VA

SUZ-M50VA

SUZ-M60VA

Remote Controller

Enclosed in MFZ-KT

*optional

*optional

*optional

Econo Cool | Pure White | AUTO VANE | Silver-ion (Optional) | V Blocking Filter | Air Purifying | SWING | AUTO | Weekly Timer | i save | ACO | Auto Restart | Low Temp Cooling | (Optional) | Group Control (Optional)

M-NET connection (Optional) | Wi-Fi Interface (Optional) | MXZ connection | 10°C | Cleaning-free, pipe reuse | Flare connection | Self Diagnosis | Failure Recall

Type				Inverter Heat Pump			
Indoor Unit				MFZ-KT25VG	MFZ-KT35VG	MFZ-KT50VG	MFZ-KT60VG
Outdoor Unit				SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA
Refrigerant				R32(*1)			
Power Supply	Source			Outdoor power supply			
	Outdoor(V/Phase/Hz)			230 / Single / 50			
Cooling	Design load		kW	2.5	3.5	5.0	6.1
	Annual electricity consumption (*2)		kWh/a	134	185	257	343
	SEER (*4), (*5)			6.5	6.6	6.8	6.2
		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
Heating (Average Season)	Design load		kW	2.2	2.6	4.3	4.6
	Declared Capacity	at reference design temperature	kW	2.0 (-10℃)	2.3 (-10℃)	3.5 (-10℃)	4.1 (-10℃)
		at bivalent temperature	kW	2.0 (-7℃)	2.3 (-7℃)	3.9 (-7℃)	4.1 (-7℃)
		at operation limit temperature	kW	2.0 (-10℃)	2.3 (-10℃)	3.5 (-10℃)	4.1 (-10℃)
	Back up heating capacity		kW	0.2	0.3	0.8	0.5
	Annual electricity consumption (*2)		kWh/a	732	825	1423	1568
	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
Operating Current (Max)			A	7.0	8.7	14.0	15.4
Indoor Unit	Input	Rated	kW	0.020 / 0.024	0.020 / 0.024	0.037 / 0.052	0.063 / 0.059
	Operating Current(Max)		A	0.20	0.20	0.45	0.55
	Dimensions	H*W*D	mm	600-750-215	600-750-215	600-750-215	600-750-215
	Weight		kg	14.5	14.5	14.5	15.0
	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
Outdoor Unit	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
		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	7	9	14	15
	Breaker Size		A	10	10	20	20
Ext. Piping	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88
	Max.Length	Out-In	m	20	20	30	30
	Max.Height	Out-In	m	12	12	30	30
Guaranteed Operating Range [Outdoor]		Cooling	℃	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	℃	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".
(*5) SEER and SCOP are based on 2009/125/EC: Energy-related Products Directive and Regulation (EU) No206/2012.

MFZ-KW SERIES

DC Inverter · DC Fan Motor · PAM · Grooved Piping · SEER · SCOP

Indoor Unit

R32 Single

GOOD DESIGN AWARD 2014

MFZ-KW25/35/50/60VG

Outdoor Unit

MUFZ-KW25/35VGHZ

MUFZ-KW50/60VGHZ

Remote Controller

Econo Cool · Pure White · AUTO VANE · Silver-ion (Optional) · V Blocking Filter · Air Purifying · SWING · AUTO · Weekly Timer · i save · ACO · Auto Restart · Low Temp Cooling (Optional) · Group Control (Optional)

M-NET connection (Optional) · Wi-Fi Interface (Optional) · 10°C · Cleaning-free pipe system · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump			
Indoor Unit				MFZ-KW25VG	MFZ-KW35VG	MFZ-KW50VG	MFZ-KW60VG
Outdoor Unit				MUFZ-KW25VGHZ	MUFZ-KW35VGHZ	MUFZ-KW50VGHZ	MUFZ-KW60VGHZ
Refrigerant				R32 (*1)			
Power Supply	Source			Outdoor power supply			
	Outdoor (V/Phase/Hz)			230 / Single / 50			
Cooling	Design Load		kW	2.5	3.5	5.0	6.1
	Annual Electricity Consumption (*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 - Max	kW	0.7 - 3.6	0.7 - 4.3	1.0 - 5.8	1.0 - 6.5
	Total Input	Rated	kW	0.57	0.90	1.36	1.73
Heating (Average Season)	Design Load		kW	3.5	3.6	4.5	4.8
	Declared Capacity	at reference design temperature	kW	3.5 (–10°C)	3.6 (–10°C)	4.5 (–10°C)	4.8 (–10°C)
		at bivalent temperature	kW	3.5 (–10°C)	3.6 (–10°C)	4.5 (–10°C)	4.8 (–10°C)
		at operation limit temperature	kW	2.6 (–25°C)	2.6 (–25°C)	4.0 (–25°C)	4.0 (–25°C)
	Back Up Heating Capacity		kW	0.0 (–10°C)	0.0 (–10°C)	0.0 (–10°C)	0.0 (–10°C)
	Annual Electricity Consumption (*2)		kWh/a	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 - Max	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 Current (max)			A	9.9	10.3	15.3	15.4
Indoor Unit	Input (Cooling/Heating)	Rated	kW	0.019/0.025	0.019/0.025	0.026/0.052	0.063/0.059
	Operating Current (max)		A	0.22	0.22	0.47	0.55
	Dimensions	H*W*D	mm	600 - 750 - 215			
	Weight		kg	15	15	15	15
	Air Volume (SLo-Lo-Mid-Hi-SHi (*3))	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
		Heating	m^3/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) (SLo-Lo-Mid-Hi-SHi (*3))	Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44	27 - 35 - 39 - 46 - 53
		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
Outdoor Unit	Dimensions	H*W*D	mm	550 - 800 - 285		880 - 840 - 330	
	Weight		kg	35	35	54	54
	Air Volume	Cooling	m^3/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)	Cooling	dB(A)	61	61	65	66
	Operating Current (max)		A	9.6	10.0	14.8	14.8
	Breaker Size		A	10	12	16	16
Ext. Piping	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7
	Max. Length	Out-In	m	20	20	30	30
	Max. Height	Out-In	m	12	12	15	15
Guaranteed Operating Range [Outdoor]		Cooling	℃	–10 ~ +46	–10 ~ +46	–10 ~ +46	–10 ~ +46
		Heating	℃	–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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) SHi: Super High
(*4) SEER, SCOP and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011. The temperature conditions for calculating SCOP are based on "Average Season".

MLZ SERIES

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

MLZ-KP25/35/50VG

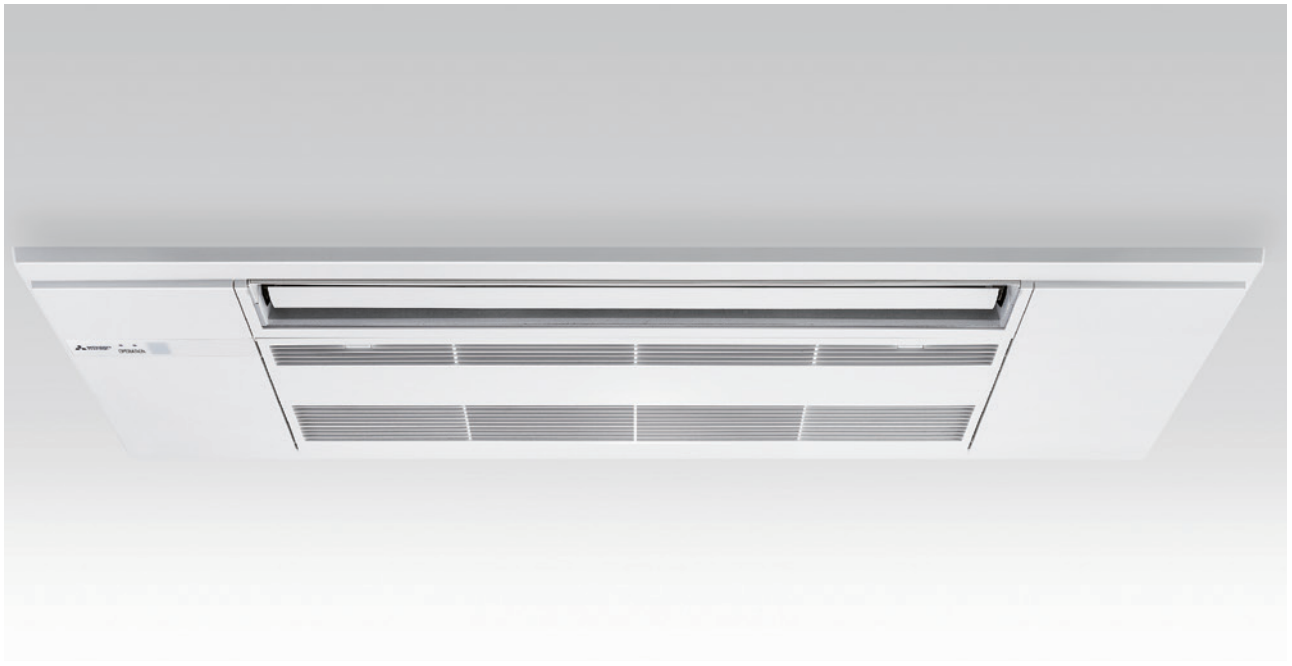
R32

MLZ-KY20VG

reddot award 2018
winner

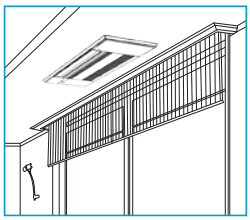
Slim Design KY KP

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



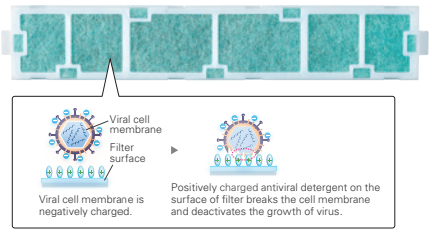
Ceiling Mounted KY KP

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 KY

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.



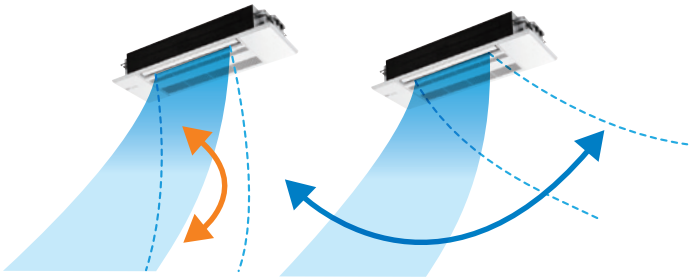
Set Airflow According to Ceiling Height KY KP

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.



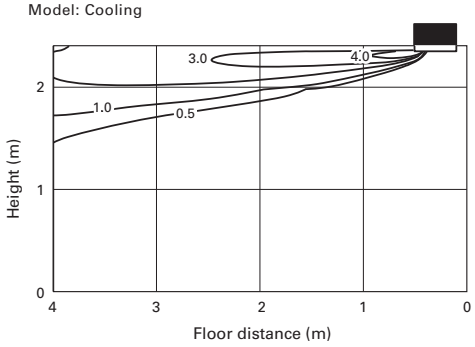
Up and Down **Left and Right**

✻Only available when Econo Cool is set.

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.

[Horizontal Airflow]
Model name: MLZ-KP35VG
Ceiling height: 2.4m
Model: Cooling



Weekly Timer Built-in Weekly Timer Function KY KP

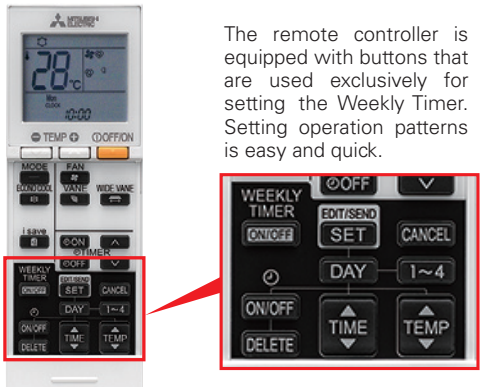
Easily set desired temperatures and operation ON/OFF times to match lifestyle patterns. Reduce wasted energy consumption by using the timer to prevent forgetting to turn off the unit and eliminate temperature setting adjustments.

■ **Example Operation Pattern (Winter/Heating mode)**

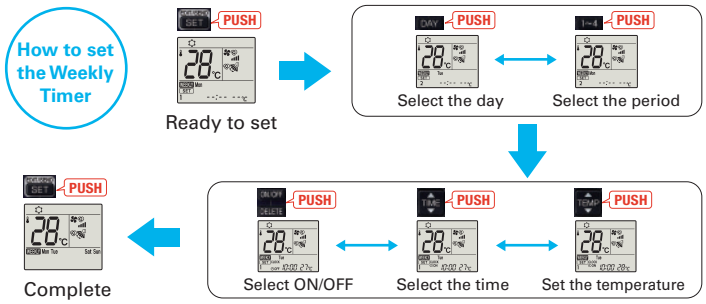
	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
8:00	Automatically changes to high-power operation at wake-up time						
10:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
12:00	Automatically turned off during work hours					Midday is warmer, so the temperature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

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

■Easy set-up using dedicated buttons



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

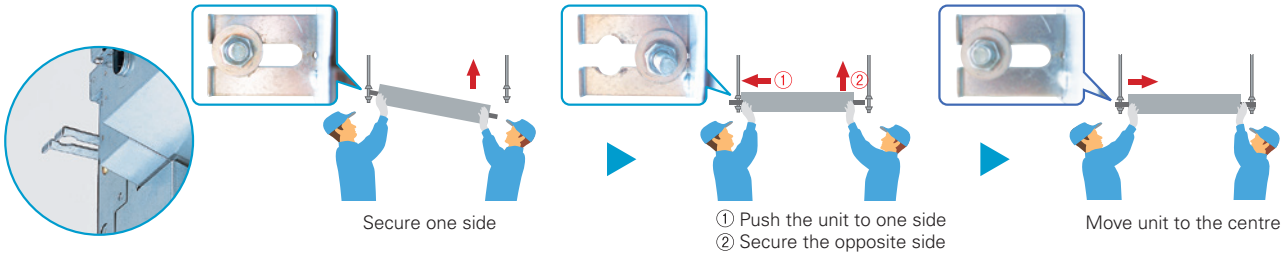


- Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired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

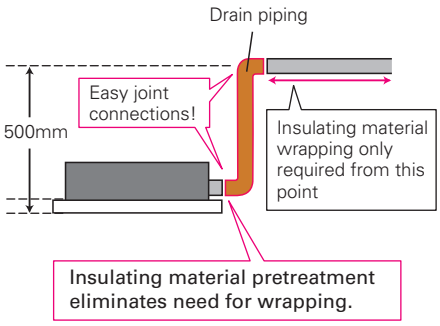
Easy Installation

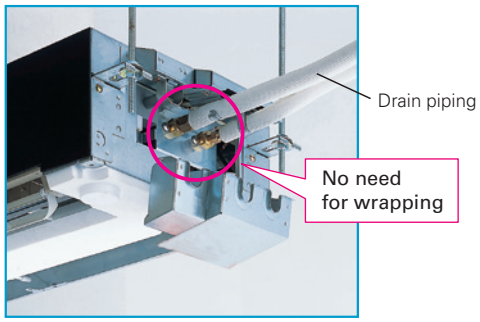
Temporary Hanging Hook KY KP

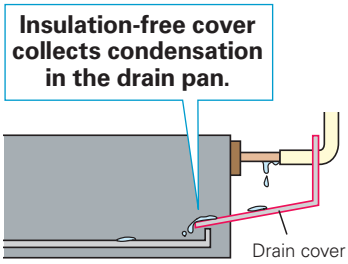
Work efficiency has improved during installation.



Refrigerant Piping Supporters + Drain Cover KY KP

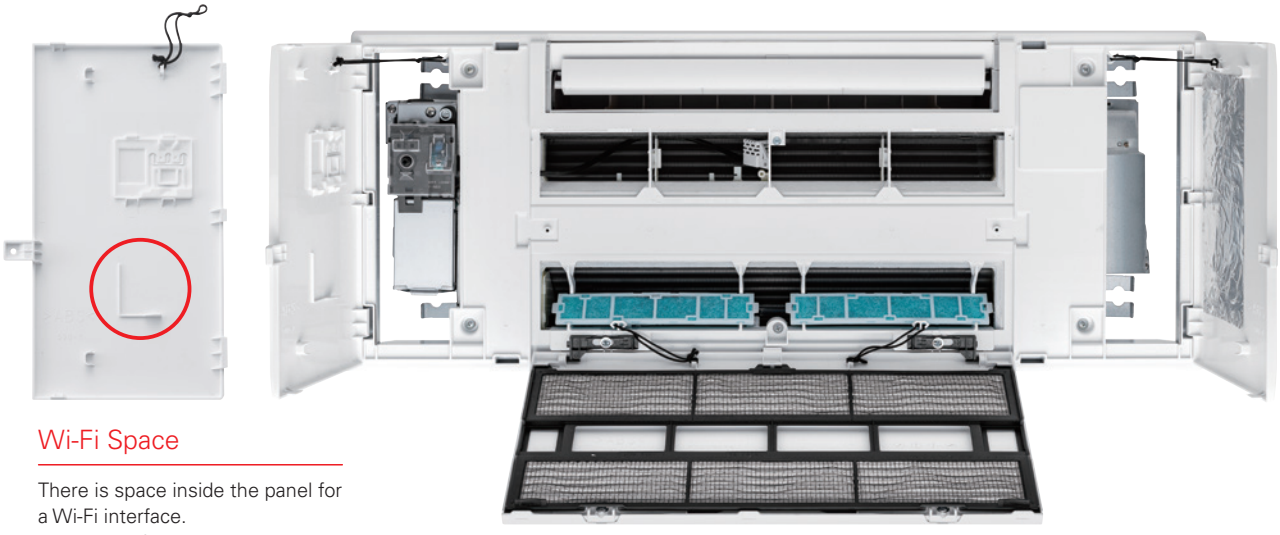






High Serviceability KY KP

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.



Wi-Fi Space

There is space inside the panel for a Wi-Fi interface.

* This image is for MLZ-KY

MLZ SERIES

DC Inverter

Indoor Unit R32

MLZ-KP25/35/50VG

GOOD DESIGN AWARD 2017

R32

MLZ-KY20VG

Panel

MLP-444W

MLP-448W

Outdoor Unit

SUZ-M25/35VA

SUZ-M50VA

For Multi Connection Only

Remote Controller

Built in MLZ-KP/KY

*optional

*optional

*optional

Econo Cool | AUTO VANE | Silver-ion (Optional) | V Blocking Filter (Optional) | Air Purifying | SWING (Optional) | High Ceiling | AUTO | Weekly Timer | ACO | Auto Restart | (Optional) | Group Control (Optional) | M-NET connection (Optional) | Wi-Fi Interface (Optional)

MXZ connection | 10°C | i save | Drain Lift Up | Flare connection | Self Diagnosis | Failure Recall

Type				Inverter Heat Pump			
Indoor Unit				MLZ-KY20VG	MLZ-KP25VG	MLZ-KP35VG	MLZ-KP50VG
Outdoor Unit				For Multi connection only	SUZ-M25VA	SUZ-M35VA	SUZ-M50VA
Refrigerant				R32(*1)			
Power Supply	Source			Outdoor Power supply			
	Outdoor (V / Phase / Hz)			230 / Single / 50			
Cooling	Design load		kW	–	2.5	3.5	5.0
	Annual electricity consumption (*2)		kWh/a	–	141	175	260
	SEER (*4), (*5)			–	6.2	7.0	6.7
		Energy efficiency class		–	A++	A++	A++
	Capacity	Rated	kW	–	2.5	3.5	5.0
		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
Heating (Average Season)	Design load		kW	–	2.2	2.6	4.3
	Declared Capacity	at reference design temperature	kW	–	2.0 (–10°C)	2.3 (–10°C)	3.8 (–10°C)
		at bivalent temperature	kW	–	2.0 (–7°C)	2.3 (–7°C)	3.8 (–7°C)
		at operation limit temperature	kW	–	2.0 (–10°C)	2.3 (–10°C)	3.8 (–10°C)
	Back up heating capacity		kW	–	0.2	0.3	0.5
	Annual electricity consumption (*2)		kWh/a	–	697	791	1397
	SCOP (*4), (*5)			–	4.4	4.6	4.3
		Energy efficiency class		–	A+	A++	A+
	Capacity	Rated	kW	–	3.2	4.1	6.0
		Min-Max	kW	–	1.4 - 4.2	1.1 - 4.9	1.7 - 7.2
	Total Input	Rated	kW	–	0.80	1.10	1.86
Operating Current (Max)			A	–	7.2	8.9	13.9
Indoor Unit	Input	Rated	kW	0.012	0.04	0.04	0.04
	Operating Current(Max)		A	0.12	0.40	0.40	0.40
	Dimensions	H*W*D	mm	194-842-301	185-1102-360	185-1102-360	185-1102-360
	Weight		kg	14	15.5	15.5	15.5
	Air Volume (SLo-Lo-Mid-Hi(*3))	Cooling	m^3/min	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
		Heating	m^3/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) (SLo-Lo-Mid-Hi(*3))	Cooling	dB(A)	30-32-34-37	27-31-34-38	27-32-36-40	29-36-41-47
		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
	Weight		kg	3.8	3.5	3.5	3.5
Outdoor Unit	Dimensions	H*W*D	mm	–	550-800-285	550-800-285	714-800-285
	Weight		kg	–	30	35	41
	Air Volume	Cooling	m^3/min	–	36.3	34.3	45.8
		Heating	m^3/min	–	34.6	32.7	43.7
	Sound Level (SPL)	Cooling	dB(A)	–	45	48	48
		Heating	dB(A)	–	46	48	49
	Sound Level (PWL)	Cooling	dB(A)	–	59	59	64
	Operating Current (Max)		A	–	6.8	8.5	13.5
	Breaker Size		A	–	10	10	20
Ext. Piping	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
	Max.Length	Out-In	m	–	20	20	30
	Max.Height	Out-In	m	–	12	12	30
Guaranteed Operating Range (Outdoor)		Cooling	℃	–	–10~+46	–10~+46	–15~+46
		Heating	℃	–	–10~+24	–10~+24	–10~+24

(*1) Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

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

(*3) SHi: Super High

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

Specification on Warmer/Colder Condition

Type				Inverter Heat Pump		
Indoor Unit				MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG
Outdoor Unit				MUZ-RW25VGHZ	MUZ-RW35VGHZ	MUZ-RW50VGHZ
Refrigerant				R32 (*1)		
Cooling	Design load		kW	2.5	3.5	5.0
	Annual electricity consumption (*2)		kWh/a	78	130	230
	SEER			11.2	9.4	7.6
		Energy efficiency class		A^{+++}	A^{+++}	A^{++}
Heating (Warmer Season)	Design load		kW	1.8	2.2	3.3
	Declared Capacity	at reference design temperature	kW	1.8	2.2	3.3
		at bivalent temperature	kW	1.8	2.2	3.3
		at operation limit temperature	kW	2.6	2.6	4.0
	Back up heating capacity		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^{+++}
Heating (Colder Season)	Design load		kW	4.7	5.9	8.8
	Declared Capacity	at reference design temperature	kW	3.7	4.0	5.6
		at bivalent temperature	kW	3.2	4.0	6.0
		at operation limit temperature	kW	2.6	2.6	4.0
	Back up heating capacity		kW	1.0	1.9	3.2
	Annual electricity consumption (*2)		kWh/a	2407	3083	5157
	SCOP			4.1	4.0	3.5
		Energy efficiency class		A^{+}	A^{+}	A

Type				Inverter Heat Pump						
Indoor Unit				MSZ-LN25VG2		MSZ-LN35VG2		MSZ-LN50VG2		MSZ-LN60VG2
Outdoor Unit				MUZ-LN25VG2	MUZ-LN25VGHZ2	MUZ-LN35VG2	MUZ-LN35VGHZ2	MUZ-LN50VG2	MUZ-LN50VGHZ	MUZ-LN60VG
Refrigerant				R32 (*1)						
Cooling	Design load		kW	2.5	2.5	3.5	3.5	5	5.0	6.1
	Annual electricity consumption (*2)		kWh/a	83	83	129	130	205	230	285
	SEER			10.5	10.5	9.5	9.4	8.5	7.6	7.5
		Energy efficiency class		A^{+++}	A^{+++}	A^{+++}	A^{+++}	A^{+++}	A^{++}	A^{++}
Heating (Warmer Season)	Design load		kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)	3.3 (2°C)
	Declared Capacity	at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)	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)
		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)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0(2°C)	0.0 (2°C)
	Annual electricity consumption (*2)		kWh/a	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^{+++}
Heating (Colder Season)	Design load		kW	—	4.7 (-22°C)	—	5.9 (-22°C)	—	8.8 (-22°C)	—
	Declared Capacity	at reference design temperature	kW	—	2.6 (-22°C)	—	3.4 (-22°C)	—	5.1 (-22°C)	—
		at bivalent temperature	kW	—	3.2 (-10°C)	—	4.0 (-10°C)	—	6.0 (-10°C)	—
		at operation limit temperature	kW	—	2.3 (-25°C)	—	3.1 (-25°C)	—	4.7 (-25°C)	—
	Back up heating capacity		kW	—	2.1 (-22°C)	—	2.5 (-22°C)	—	3.7 (-22°C)	—
	Annual electricity consumption (*2)		kWh/a	—	2425	—	3075	—	5340	—
	SCOP			—	4.0	—	4.0	—	3.4	—
		Energy efficiency class		—	A^{+}	—	A^{+}	—	A	—

Type				Inverter Heat Pump		
Indoor Unit				MSZ-FT25VG	MSZ-FT35VG	MSZ-FT50VG
Outdoor Unit				MUZ-FT25VGHZ	MUZ-FT35VGHZ	MUZ-FT50VGHZ
Refrigerant				R32 (*1)		
Cooling	Design load		kW	2.5	3.5	5.0
	Annual electricity consumption (*2)		kWh/a	101	142	243
	SEER			8.6	8.6	7.2
		Energy efficiency class		A^{+++}	A^{+++}	A^{++}
Heating (Warmer Season)	Design load		kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)
	Declared Capacity	at reference design temperature	kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)
		at bivalent temperature	kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)
		at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption (*2)		kWh/a	432	527	684
	SCOP			5.8	5.8	5.5
		Energy efficiency class		A^{+++}	A^{+++}	A^{+++}
Heating (Colder Season)	Design load		kW	4.7 (-22°C)	5.9 (-22°C)	7.4 (-22°C)
	Declared Capacity	at reference design temperature	kW	3.1 (-22°C)	3.7 (-22°C)	4.0 (-22°C)
		at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)
		at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)
	Back up heating capacity		kW	1.6 (-22°C)	2.2 (-22°C)	3.4 (-22°C)
	Annual electricity consumption (*2)		kWh/a	2766	3453	4707
	SCOP			3.5	3.5	3.3
		Energy efficiency class		A	A	B

Type				Inverter Heat Pump									
Indoor Unit				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 Unit				MUZ-AY15VG	MUZ-AY20VG	MUZ-AY25VG	MUZ-AY25VGH	MUZ-AY35VG	MUZ-AY35VGH	MUZ-AY42VG	MUZ-AY42VGH	MUZ-AY50VG	MUZ-AY50VGH
Refrigerant				R32 (*1)									
Cooling	Design load		kW	—	—	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
	Annual electricity consumption (*2)		kWh/a	—	—	100	100	141	141	186	186	232	232
	SEER			—	—	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^{++}
Heating (Warmer Season)	Design load		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 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)
		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)
		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 capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption (*2)		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^{+++}	A^{+++}	A^{+++}	A^{+++}	A^{+++}	A^{+++}	A^{+++}	A^{+++}	A^{+++}

Type				Inverter Heat Pump	
Indoor Unit				MSZ-AP60VG(K)	MSZ-AP71VG(K)
Outdoor Unit				MUZ-AP60VG	MUZ-AP71VG
Refrigerant				R32 (*1)	
Cooling	Design load		kW	6.1	7.1
	Annual electricity consumption (*2)		kWh/a	288	345
	SEER			7.4	7.2
		Energy efficiency class		A++	A++
Heating (Warmer Season)	Design load		kW	2.5 (2°C)	3.7 (2°C)
	Declared Capacity	at reference design temperature	kW	2.5 (2°C)	3.7 (2°C)
		at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)
		at operation limit temperature	kW	3.7 (-15°C)	5.4 (-15°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption (*2)		kWh/a	627	891
	SCOP			5.5	5.8
		Energy efficiency class		A+++	A+++

Type				Inverter Heat Pump					
Indoor Unit				MSZ-EF25VG		MSZ-EF35VG		MSZ-EF42VG	MSZ-EF50VG
Outdoor Unit				MUZ-EF25VG	MUZ-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH	MUZ-EF42VG	MUZ-EF50VG
Refrigerant				R32 (*1)					
Cooling	Design load		kW	2.5	2.5	3.5	3.5	4.2	5.0
	Annual electricity consumption (*2)		kWh/a	96	96	139	139	186	233
	SEER			9.1	9.1	8.8	8.8	7.9	7.5
		Energy efficiency class		A+++	A+++	A+++	A+++	A++	A++
Heating (Warmer Season)	Design load		kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
	Declared Capacity	at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
		at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)
		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)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption (*2)		kWh/a	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+++

Type				Inverter Heat Pump			
Indoor Unit				MSZ-BT20VG	MSZ-BT25VG	MSZ-BT35VG	MSZ-BT50VG
Outdoor Unit				MUZ-BT20VG	MUZ-BT25VG	MUZ-BT35VG	MUZ-BT50VG
Refrigerant				R32 (*1)			
Cooling	Design load		kW	2.0	2.5	3.5	5.0
	Annual electricity consumption (*2)		kWh/a	86	108	180	265
	SEER			8.1	8.1	6.8	6.6
		Energy efficiency class		A++	A++	A++	A++
Heating (Warmer Season)	Design load		kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
	Declared Capacity	At reference design temperature	kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at bivalent temperature	kW	0.9(2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-15°C)	3.4 (-15°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption (*2)		kWh/a	234	268	304	543
	SCOP			5.3	5.7	5.9	5.4
		Energy efficiency class		A+++	A+++	A+++	A+++

Type				Inverter Heat Pump					
Indoor Unit				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
Refrigerant				R32 (*1)					
Cooling	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			6.2	6.2	6.5	6.5	7.2	7.0
		Energy efficiency class		A++	A++	A++	A++	A++	A++
Heating (Warmer Season)	Design load		kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)
	Declared Capacity	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)
		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)
		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 capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	Annual electricity consumption (*2)		kWh/a	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+++

Type				Inverter Heat Pump		
Indoor Unit				MSZ-DW25VF	MSZ-DW35VF	MSZ-DW50VF
Outdoor Unit				MUZ-DW25VF	MUZ-DW35VF	MUZ-DW50VF
Refrigerant				R32 (*1)		
Cooling	Design load		kW	2.5	3.4	5.0
	Annual electricity consumption (*2)		kWh/a	135	184	261
	SEER			6.2	6.2	6.5
		Energy efficiency class		A++	A++	A++
Heating (Warmer Season)	Design load		kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
	Declared Capacity	at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)
		at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
	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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.
(*2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

S

SERIES

SELECTION

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

SELECT INDOOR UNIT

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

R32
R410A

Units without Remote Controller

SLZ-M15FA2
(Multi split series connection only)
SLZ-M25FA2
SLZ-M35FA2
SLZ-M50FA2
SLZ-M60FA2

Panel

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Plasma Quad Connect
SLP-2FA				
SLP-2FAL	✓			
SLP-2FAE		✓		
SLP-2FALE	✓	✓		
SLP-2FALM2	✓		✓	
SLP-2FALME2	✓	✓	✓	
SLP-2FAP				✓
SLP-2FALP	✓			✓
SLP-2FALMP2	✓		✓	✓

R32
R410A

Units without Remote Controller

SEZ-M25DA2
SEZ-M35DA2
SEZ-M50DA2
SEZ-M60DA2
SEZ-M71DA2

Units with Wireless Remote Controller

SEZ-M25DAL2
SEZ-M35DAL2
SEZ-M50DAL2
SEZ-M60DAL2
SEZ-M71DAL2

R32

Units without Remote Controller

SFZ-M25VA
SFZ-M35VA
SFZ-M50VA
SFZ-M60VA
SFZ-M71VA

SELECT OUTDOOR UNIT

There is one outdoor unit for respective indoor units.

R32

SUZ-M25/35VA

R32

SUZ-M50VA

R32

SUZ-M60/71VA

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

SLZ SERIES

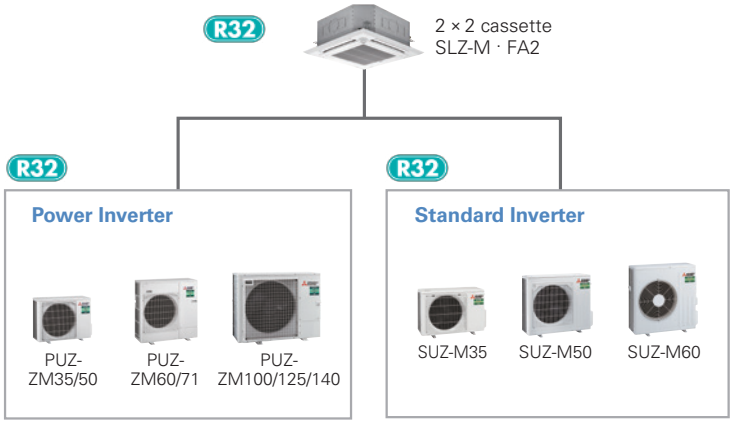
Compact, lightweight ceiling cassette units with 4-way air outlets provide maximum comfort by evenly distributing airflow throughout the entire room.

R32
R410A

SLZ-M15/25/35/50/60FA2

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.



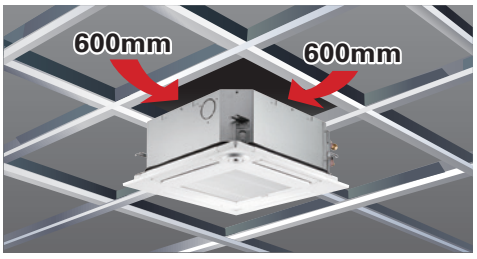
New Lineup

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		✓	✓	✓	✓
SLZ-M	✓	✓	✓	✓	✓

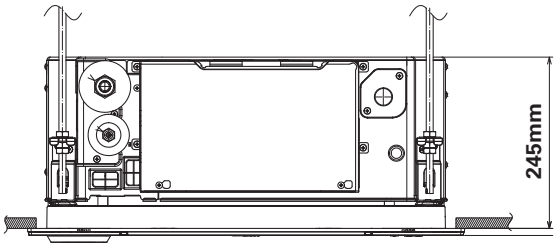
Beautiful Design

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



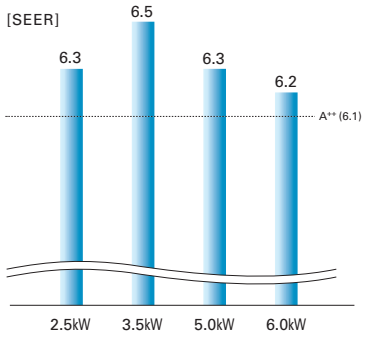
The Height Above Ceiling of 245mm

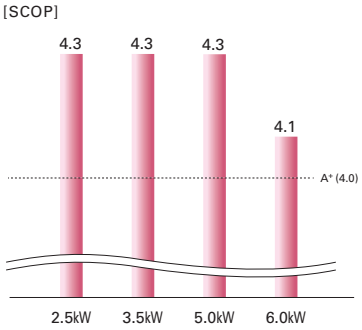
The height above ceiling of 245mm enables fitting into narrow ceiling space. Installation is simple, even when the ceiling spaces are narrow to make the ceilings higher.
Of course, in addition to our products, replacing competitors' product is simplified too.



Energy-saving Performance*

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





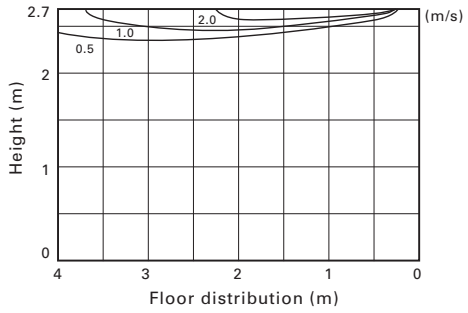
Quietness

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

Horizontal Airflow

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

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

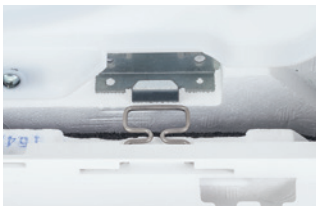


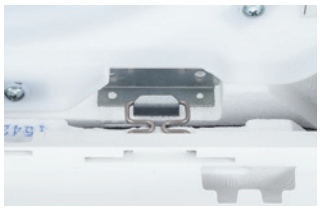
*Vane angle: Horizontal

Easy Installation

Temporary hanging hook

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

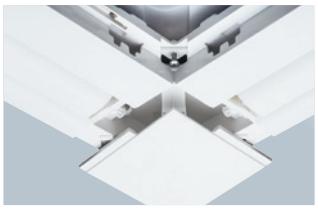




No need to remove screws

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

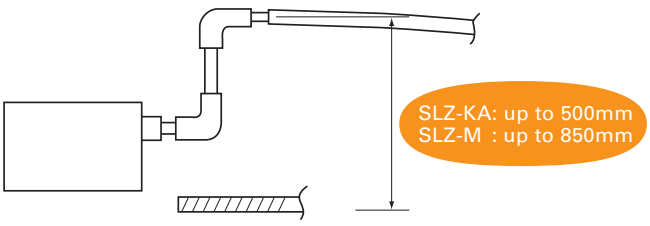
■ Corner panel



■ Control box cover

Drain Lift

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



3D i-see Sensor for S & P SERIES

Detects Number of People

Room occupancy energy-saving mode

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

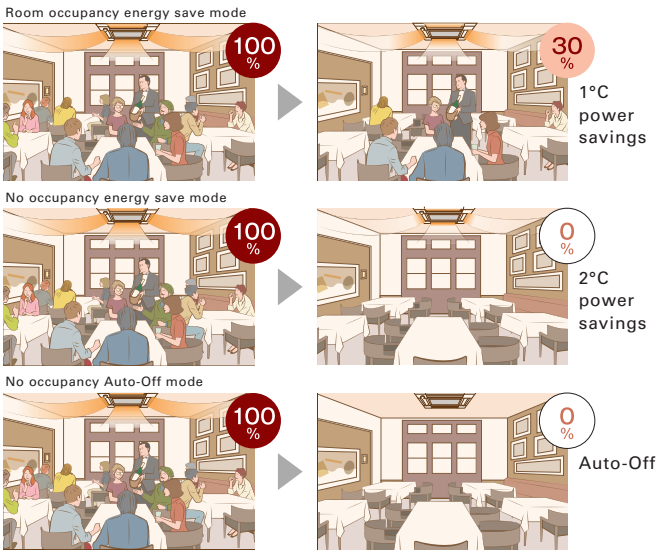
No occupancy energy-saving mode

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

No occupancy Auto-OFF mode*

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

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

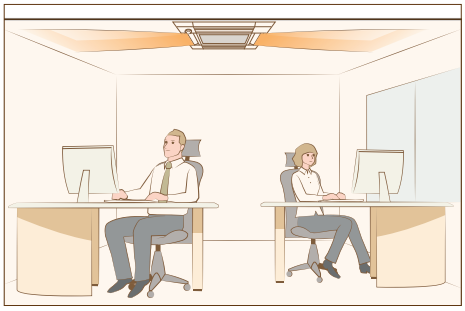


*PAR-41MAA is required for each setting

Detects People's Position

Direct/Indirect settings*

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

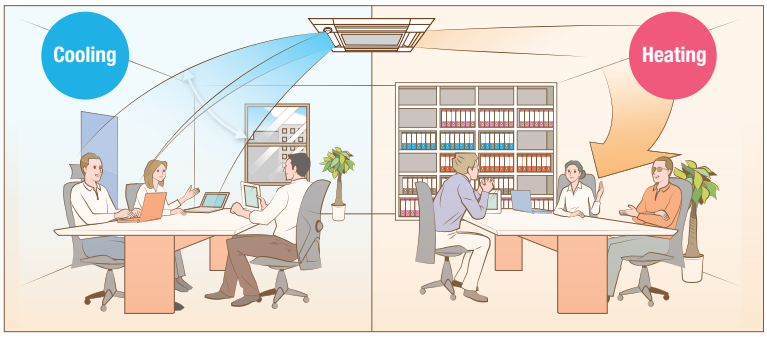


*PAR-41MAA or PAR-SL101A-E is required for each setting.

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.

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 SERIES

DC Inverter · Joint Lap · Rare Earth Magnet · DC Fan Motor · PAM · Grooved Piping · Heat Caulking Fixing Method

Indoor Unit

R32
R410A

SLZ-M15/25/35/50/60FA2

Panel

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Plasma Quad Connect
SLP-2FA				
SLP-2FAL	✓			
SLP-2FAE		✓		
SLP-2FALE	✓	✓		
SLP-2FALM2	✓		✓	
SLP-2FALME2	✓	✓	✓	
SLP-2FAP				✓
SLP-2FALP	✓			✓
SLP-2FALMP2	✓		✓	✓

Outdoor Unit

R32 For Single

R32 For Multi (Twin/Triple/Quadruple)

PUZ-ZM35/50 · PUZ-ZM60 · PUZ-ZM71 · PUZ-ZM100/125/140

Remote Controller

Enclosed in SLP-2FALM2/SLP-2FALME2

*optional

*optional

*optional

Pure White · AUTO VANE · Fresh-air Intake · Long Life · FA Check! · SWING · ACO · Auto Restart · Low Temp Cooling · Optional · Group Control · Optional · M-NET connection · Optional · Wi-Fi Interface · Optional · MXZ connection · Drain Lift Up · Flare connection · Self Diagnosis · Failure Recall

Indoor Unit Combination		Outdoor Unit Capacity															
		For Single							For Twin			For Triple			For Quadruple	
		35	50	60	71	100	125	140	71	100	125	100	125	140	125	140
Power Inverter (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	-	-	-	-	-	-	-	MSDD-50TR2-E			MSDT-111R3-E			MSDF-1111R2-E	

Type				Inverter Heat Pump		
Indoor Unit				SLZ-M35FA2	SLZ-M50FA2	SLZ-M60FA2
Outdoor Unit				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2
Refrigerant[*1]				R32		
Power Supply	Source			Outdoor power supply		
	Outdoor(V/Phase/Hz)			230/Single/50		
Cooling	Capacity	Rated	kW	3.6	5.0	6.1
		Min-Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.5
	Total Input	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 consumption[*2]		kWh/a	194	280	346
	SEER[*4]			6.5	6.2	6.1
		Energy efficiency class		A++	A++	A++
Heating	Capacity	Rated	kW	4.1	5.0	6.4
		Min-Max	kW	1.6 - 5.0	2.5 - 5.5	2.8 - 7.3
	Total Input	Rated	kW	1.205	1.470	2.064
	COP			3.40	3.40	3.10
	Design load		kW	2.4	3.8	4.4
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)
		at bivalent temperature	kW	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)
		at operation limit temperature	kW	2.2 (-11°C)	3.7 (-11°C)	2.8 (-20°C)
	Back up heating capacity		kW	0.0	0.0	0.0
	Annual electricity consumption[*2]		kWh/a	820	1273	1560
	SCOP[*4]			4.0	4.1	3.9
		Energy efficiency class		A+	A+	A
Operating Current(Max)			A	13.2	13.3	19.4
Indoor Unit	Input [cooling / Heating]	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)		m³/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
Outdoor Unit	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)
	Weight		kg	46	46	67
	Air Volume	Cooling	m³/min	45	45	55
		Heating	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
Ext.Piping	Diameter[*5]	Liquid/Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88
	Max.Length	Out-In	m	50	50	55
	Max.Height	Out-In	m	30	30	30
Guaranteed Operating Range (Outdoor)		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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.
*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

SLZ-M SERIES

DC Inverter | Joint Lap | Rare Earth Magnet | DC Fan Motor | PAM | Grooved Piping | Heat Caulking Fixing Method

Indoor Unit

R32
R410A

SLZ-M15/25/35/50/60FA2

Outdoor Unit

For Single

SUZ-M25/35VA | SUZ-M50VA | SUZ-M60VA

Panel

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Plasma Quad Connect
SLP-2FA				
SLP-2FAL	✓			
SLP-2FAE		✓		
SLP-2FALE	✓	✓		
SLP-2FALM2	✓		✓	
SLP-2FALME2	✓	✓	✓	
SLP-2FAP				✓
SLP-2FALP	✓			✓
SLP-2FALMP2	✓		✓	✓

Remote Controller

Enclosed in SLP-2FALM/SLP-2FALME | *optional | *optional | *optional

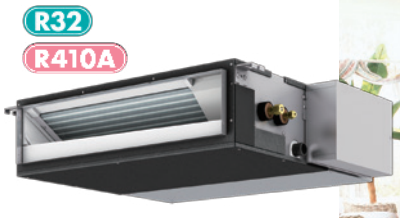
Pure White | AUTO VANE | Fresh-air Intake | Long Life | FA Check! | SWING | ACO | Auto Restart | Low Temp Cooling | Optional | Group Control | Optional | M-NET connection | Optional | Wi-Fi Interface | Optional | MXZ connection | Drain Lift Up | Flare connection | Self Diagnosis | Failure Recall

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

Type					Inverter Heat Pump			
Indoor Unit					SLZ-M25FA2	SLZ-M35FA2	SLZ-M50FA2	SLZ-M60FA2
Outdoor Unit					SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA
Refrigerant[*1]					R32			
Power Supply	Source				Outdoor power supply			
	Outdoor(V/Phase/Hz)				230/Single/50			
Cooling	Capacity	Rated		kW	2.5	3.5	4.6	5.7
		Min-Max		kW	1.4 - 3.2	0.7 - 3.9	1.0 - 5.2	1.5 - 6.3
	Total Input	Rated		kW	0.657	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[*3]				6.3	6.7	6.3	6.2
		Energy efficiency class			A++	A++	A++	A++
Heating	Capacity	Rated		kW	3.2	4.0	5.0	6.4
		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			kW	2.2	2.6	3.6	4.6
	Declared Capacity	at reference design temperature		kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.1 (-10°C)
		at bivalent temperature		kW	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.1 (-7°C)
		at operation limit temperature		kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.1 (-10°C)
	Back up heating capacity			kW	0.2	0.3	0.4	0.5
	Annual electricity consumption[*2]			kWh/a	716	845	1192	1560
	SCOP[*3]				4.3	4.3	4.2	4.1
		Energy efficiency class			A+	A+	A+	A+
Operating Current(Max)				A	7.0	8.7	13.8	15.2
Indoor Unit	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			kg	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
Outdoor Unit	Dimensions	H*W*D		mm	550-800-285	550-800-285	714-800-285	880-840-330
	Weight			kg	30	35	41	54
	Air Volume	Cooling		m^3/min	36.3	34.3	45.8	50.1
		Heating		m^3/min	34.6	32.7	43.7	50.1
	Sound Level (SPL)	Cooling		dB(A)	45	48	48	49
		Heating		dB(A)	46	48	49	51
	Sound Level (PWL)	Cooling		dB(A)	59	59	64	65
	Operating Current(Max)			A	6.8	8.5	13.5	14.8
	Breaker Size			A	10	10	20	20
Ext.Piping	Diameter[*4]	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
Guaranteed Operating Range (Outdoor)		Cooling		°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46
		Heating		°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere.This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 SEER and SCOP are 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 and indoor units.

SEZ SERIES



SEZ-M25-71DA(L)2

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

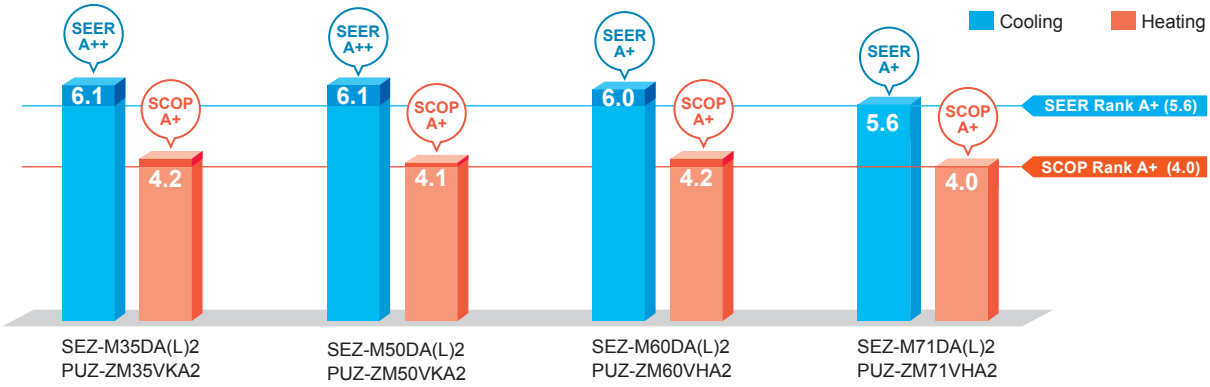
High Energy Efficiency

DC Inverter

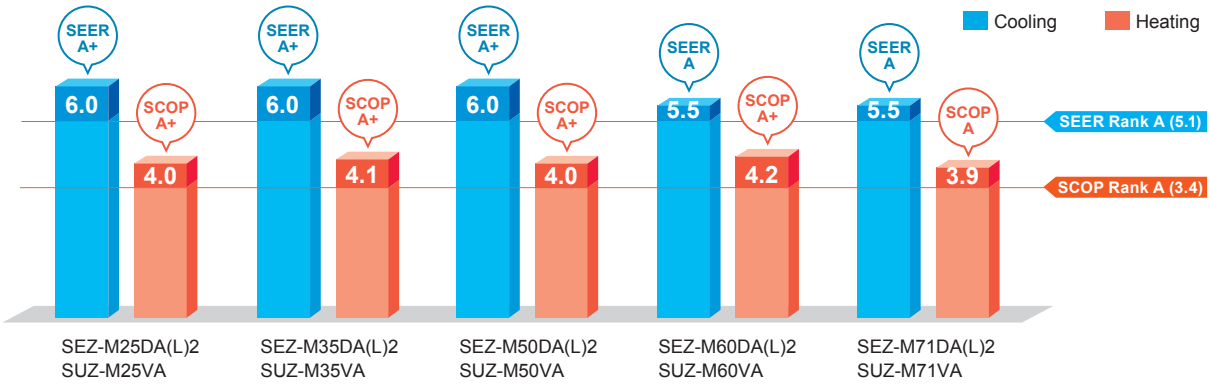
35/50 SEER A++ | 35/50 SCOP A+ | 25/35/50 SEER A+ | 25/35/50/60 SCOP A+
Power Inverter | Standard Inverter

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.

Power Inverter

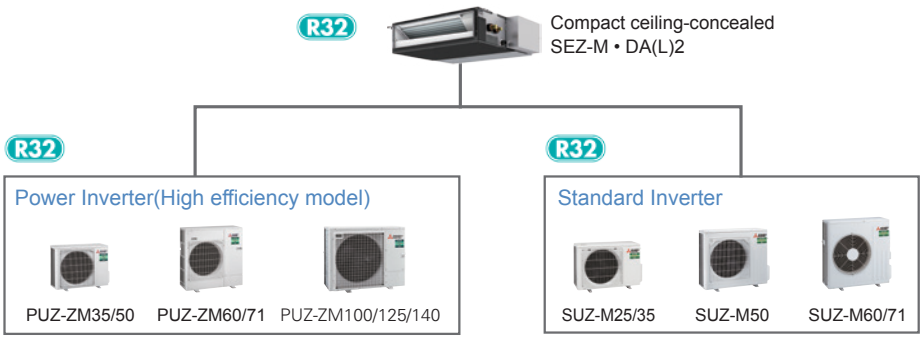


Standard Inverter



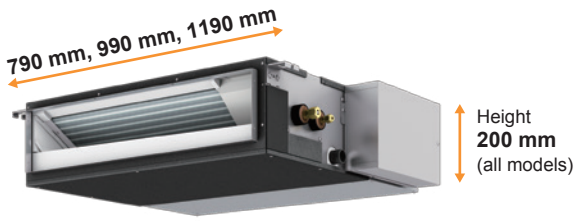
Lineup of Compatible Outdoor Unit has been Expanded by Power Inverter Series

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	990		1190	

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).

Sound pressure level	Capacity		M25	M35	M50	M60	M71
	Fan speed	High	29	30	36	37	39
		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.

Selectable Static Pressure Levels

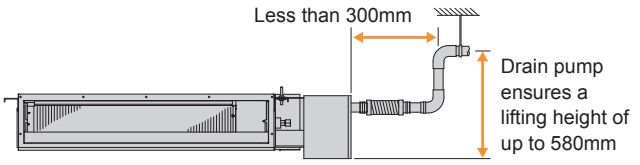
External static pressure can be selected from 5, 25, 35, and 50 Pa (set to 25 Pa at the time of factory shipment).

Four levels Available for All Models

Drain Pump (Optional)

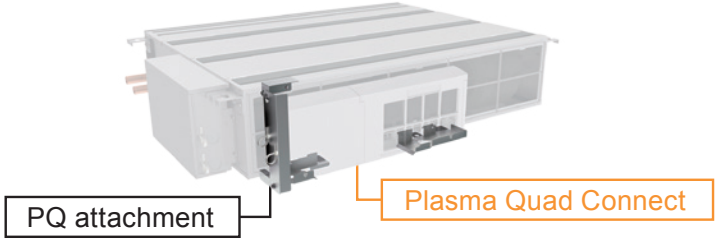
The PAC-KE07DM-E drain pump is available as an option. The drain connection can be raised as high as 580 mm, allowing more freedom in piping layout design.

*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.

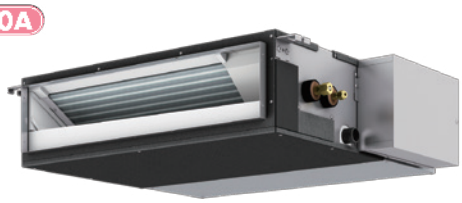


SEZ-M SERIES

DC Inverter | Joint Lap | DC Rotary | Rare Earth Magnet | DC Fan Motor | PAM | Grooved Piping | Heat Caulking Fixing Method

Indoor Unit

R32
R410A



SEZ-M25/35/50/60/71DA2 (Requires Wired Remote Controller)
SEZ-M25/35/50/60/71DAL2 (Wireless Remote Controller is enclosed)

Outdoor Unit

R32 For Single

R32 For Multi (Twin/Triple/Quadruple)


PUZ-ZM35/50


PUZ-ZM60/71


PUZ-ZM71


PUZ-ZM100/125/140

Remote Controller


Enclosed in SEZ-M DAL2


*optional (for SEZ-M DA2)

*optional (for SEZ-M DA2)


*optional (for SEZ-M DA2)

AUTO | ACO | Auto Restart | Low Temp Cooling | DA2 Optional | Group Control Optional | M-NET connection Optional | Wi-Fi Interface Optional | MXZ connection | Drain Lift Up Optional | Flare connection | Self Diagnosis | Failure Recall

Indoor Unit Combination		Outdoor Unit Capacity														
		For Single							For Twin			For Triple			For Quadruple	
		35	50	60	71	100	125	140	71	100	125	100	125	140	125	140
Power Inverter (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	-	-	-	-	-	-	-	MSDD-50TR2-E			MSDT-111R3-E			MSDF-1111R2-E	

Type				Inverter Heat Pump			
Indoor Unit				SEZ-M35DA(L)2	SEZ-M50DA(L)2	SEZ-M60DA(L)2	SEZ-M71DA(L)2
Outdoor Unit				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2
Refrigerant[*1]				R32			
Power Supply	Source			Outdoor power supply			
	Outdoor(V/Phase/Hz)			230/Single/50			
Cooling	Capacity	Rated	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
	Total Input	Rated	kW	0.857	1.315	1.525	1.918
	EER[*4]			4.20	3.80	4.00	3.70
	Design load		kW	3.6	5.0	6.1	7.1
	Annual electricity consumption[*2]		kWh/a	205	287	352	440
	SEER[*4][*5]			6.1	6.1	6.0	5.6
		Energy efficiency class		A++	A++	A+	A+
Heating	Capacity	Rated	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
	Design load		kW	2.4	3.8	4.4	4.7
	Declared Capacity	at reference design temperature	kW	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)
		at operation limit temperature	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 consumption[*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+
Operating Current(Max)			A	13.7	13.8	19.9	20.0
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.047	0.077	0.084	0.102
	Operating Current(Max)		A	0.65	0.82	0.88	1.00
	Dimensions	H*W*D	mm	200 - 990 - 700	200 - 990 - 700	200 - 1190 - 700	200 - 1190 - 700
	Weight		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>
	Sound Level (Lo-Mid-Hi) (SPL)	Rated	dB(A)	23 - 27 - 31	30 - 34 - 37	30 - 34 - 38	30 - 35 - 40
		5Pa[*8]	dB(A)	22 - 26 - 30	29 - 33 - 36	29 - 33 - 37	29 - 34 - 39
	Sound Level (PWL)		dB(A)	51	57	58	60
Outdoor Unit	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)
	Weight		kg	46	46	67	67
	Air Volume	Cooling	m³/min	45	45	55	55
		Heating	m³/min	45	45	55	55
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47
		Heating	dB(A)	46	46	49	49
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67
	Operating Current(Max)		A	13	13	19	19
	Breaker Size		A	16	16	25	25
Ext.Piping	Diameter[*6]	Liquid/Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88
	Max.Length	Out-In	m	50	50	55	55
	Max.Height	Out-In	m	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling[*3]	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21

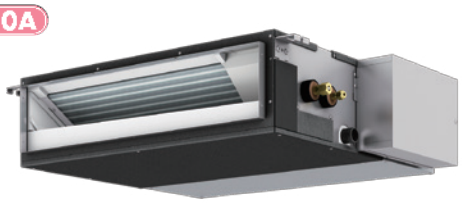
*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
*4 EER/COP and SEER/SCOP for M35-71 are measured at ESP 25Pa
*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 < >.
*8 SPL measured at ESP 5Pa.

SEZ-M SERIES

DC Inverter | Joint Lap | DC Rotary | Rare Earth Magnet | DC Fan Motor | PAM | Grooved Piping | Heat Caulking Fixing Method

Indoor Unit

R32
R410A



SEZ-M25/35/50/60/71DA2 (Requires Wired Remote Controller)
SEZ-M25/35/50/60/71DAL2 (Wireless Remote Controller is enclosed)

Outdoor Unit

For Single

R32

SUZ-M25/35VA

R32

SUZ-M50VA

R32

SUZ-M60/71VA

Remote Controller

Enclosed in SEZ-M DAL2

*optional (for SEZ-M DA2)

*optional (for SEZ-M DA2)

*optional (for SEZ-M DA2)

AUTO | ECO | Auto Restart | Low Temp Cooling | DA2 Optional | Group Control Optional | M-NET connection Optional | Wi-Fi Interface Optional | MXZ connection | Drain Lift Up Optional | Flare connection | Self Diagnosis | Failure Recall

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

Type					Inverter Heat Pump				
Indoor Unit					SEZ-M25DA(L)2	SEZ-M35DA(L)2	SEZ-M50DA(L)2	SEZ-M60DA(L)2	SEZ-M71DA(L)2
Outdoor Unit					SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA
Refrigerant[*1]					R32				
Power Supply	Source				Outdoor power supply				
	Outdoor(V/Phase/Hz)				230/Single/50				
Cooling	Capacity	Rated		kW	2.5	3.5	5.0	6.1	7.1
		Min-Max		kW	1.4 - 3.2	0.7 - 3.9	1.1 - 5.6	1.6 - 6.3	2.2 - 8.1
	Total Input	Rated		kW	0.714	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 consumption[*2]			kWh/a	146	202	290	385	451
	SEER[*3][*4]				6.0	6.0	6.0	5.5	5.5
		Energy efficiency class			A+	A+	A+	A	A
Heating	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)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)
		at bivalent temperature		kW	2.0 (-7°C)	2.3 (-7°C)	3.8 (-7°C)	4.1 (-7°C)	5.2 (-7°C)
		at operation limit temperature		kW	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)
	Back up heating capacity			kW	0.2	0.3	0.5	0.5	0.6
	Annual electricity consumption[*2]			kWh/a	769	878	1501	1516	2030
	SCOP[*3][*4]				4.0	4.1	4.0	4.2	3.9
		Energy efficiency class			A+	A+	A+	A+	A
Operating Current(Max)				A	7.4	9.2	14.3	15.7	15.8
Indoor Unit	Input [cooling / Heating]	Rated		kW	0.043	0.047	0.077	0.084	0.102
	Operating Current(Max)			A	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			kg	18	22	22	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> - <50>
	Sound Level (Lo-Mid-Hi) (SPL)	Rated		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
Outdoor Unit	Dimensions	H*W*D		mm	550-800-285	550-800-285	714-800-285	880-840-330	880-840-330
	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
Ext.Piping	Diameter[*5]	Liquid/Gas		mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88
	Max.Length	Out-In		m	20	20	30	30	30
	Max.Height	Out-In		m	12	12	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling		°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating		°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 SEER/SCOP are measured at ESP 25Pa.
*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.
*6 The factory setting of ESP is shown without < >.
*7 SPL measured at ESP 5Pa.

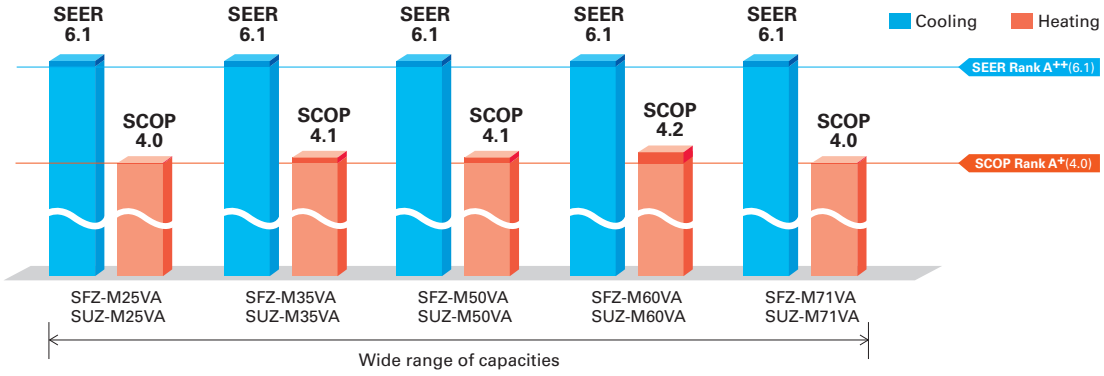
SFZ SERIES

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.

SFZ-M25/35/50/60/71VA

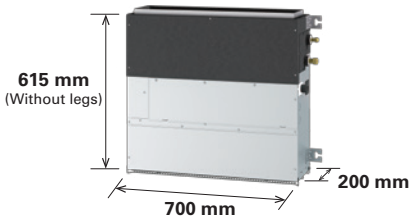
A Wide Lineup Offering High Energy Efficiency

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

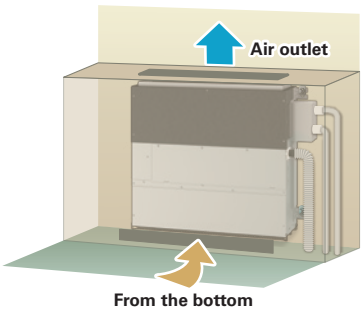
With the control box built inside the unit, the compact body and small footprint are realized. This allows the unit to be installed within a small perimeter zone.



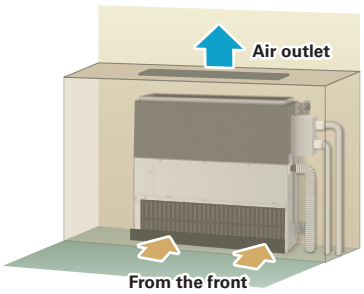
Flexible Installation

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

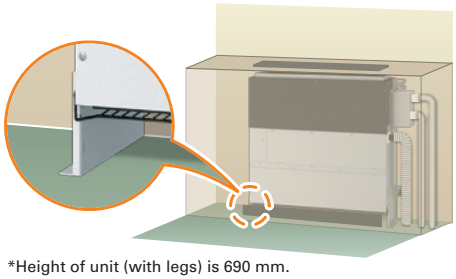
Bottom suction *1



Front suction *2



Installation with legs



*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.

SFZ-M SERIES

Indoor Unit

SFZ-M25/35/50/60/71VA

Outdoor Unit

SUZ-M25/35VA | SUZ-M50VA | SUZ-M60/71VA

Remote Controller

PAR-40MAA *Optional

PAR-CT01MAA *Optional

PAC-YT52CRA *Optional

Type				Inverter Heat Pump				
Indoor Unit				SFZ-M25VA	SFZ-M35VA	SFZ-M50VA	SFZ-M60VA	SFZ-M71VA
Outdoor Unit				SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA
Refrigerant(*1)				R32*1				
Power Supply	Source			Outdoor power supply				
	Outdoor (V/Phase/Hz)			230 / Single / 50				
Cooling	Capacity	Rated	kW	2.5	3.5	5.0	6.1	7.1
		Min - Max	kW	1.5 - 3.2	0.7 - 3.9	1.1 - 5.6	1.6 - 6.3	1.9 - 8.1
	Total Input	Rated	kW	0.641	1.000	1.470	1.848	2.151
	EER			3.90	3.50	3.40	3.30	3.30
	Design Load		kW	2.5	3.5	5.0	6.1	7.1
	Annual Electricity Consumption(*2)		kWh/a	143	199	284	346	403
	SEER(*3)(*4)			6.1	6.1	6.1	6.1	6.1
		Energy Efficiency Class		A++	A++	A++	A++	A++
Heating (Average Season)	Capacity	Rated	kW	3.2	4.1	6.0	7.0	8.0
		Min - Max	kW	1.2 - 4.2	1.0 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2
	Total Input	Rated	kW	0.886	1.051	1.617	1.886	2.156
	COP			3.61	3.90	3.71	3.71	3.71
	Design Load		kW	2.2	2.6	4.3	4.6	5.8
	Declared Capacity	at reference design temperature	kW	2.0 (–10°C)	2.3 (–10°C)	3.3 (–10°C)	4.1 (–10°C)	5.2 (–10°C)
		at bivalent temperature	kW	2.0 (–7°C)	2.3 (–7°C)	3.8 (–7°C)	4.1 (–7°C)	5.2 (–7°C)
		at operation limit temperature	kW	2.0 (–10°C)	2.3 (–10°C)	3.3 (–10°C)	4.1 (–10°C)	5.2 (–10°C)
	Back Up Heating Capacity		kW	0.2	0.3	1.0	0.5	0.6
	Annual Electricity Consumption(*2)		kWh/a	766	887	1467	1532	1997
	SCOP(*3)(*4)			4.0	4.1	4.1	4.2	4.0
		Energy Efficiency Class		A+	A+	A+	A+	A+
Operating Current (max)			A	7.2	8.9	14.1	15.4	15.6
Indoor Unit	Input	Rated	kW	0.041	0.044	0.072	0.078	0.095
	Operating Current (max)		A	0.44	0.44	0.61	0.64	0.76
	Dimensions <Panel>(*6)(*7)	H*W*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
	Weight <Panel>		kg	18.5	22.5	22.5	25.5	25.5
	Air Volume [Lo-Mid-Hi]		m^3/min	5.5 - 7 - 9	7 - 9 - 11	10 - 12.5 - 15	12 - 15 - 18	12 - 16 - 20
	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>
	Sound Level (SPL)(*9) [Lo-Mid-Hi]		dB(A)	25 - 29 - 35	25 - 29 - 33	30 - 35 - 39	30 - 35 - 39	30 - 36 - 42
	Sound Level (PWL)		dB(A)	54	53	59	59	61
Outdoor Unit	Dimensions	H*W*D	mm	550 - 800 - 285	550 - 800 - 285	714 - 800 - 285	880 - 840 - 330	880 - 840 - 330
	Weight		kg	30	35	41	54	55
	Air Volume	Cooling	m^3/min	36.3	34.3	45.8	50.1	50.1
		Heating	m^3/min	34.6	32.7	43.7	50.1	50.1
	Sound Level (SPL)	Cooling	dB(A)	45	48	48	49	49
		Heating	dB(A)	46	48	49	51	51
	Sound Level (PWL)	Cooling	dB(A)	59	59	64	65	66
	Operating Current (max)		A	6.8	8.5	13.5	14.8	14.8
	Breaker Size		A	10	10	20	20	20
Ext. Piping	Diameter(*5)	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88	9.52 / 15.88
	Max. Length	Out-In	m	20	20	30	30	30
	Max. Height	Out-In	m	12	12	30	30	30
Guaranteed Operating Range [Outdoor]		Cooling	°C	–10 ~ +46	–10 ~ +46	–15 ~ +46	–15 ~ +46	–15 ~ +46
		Heating	°C	–10 ~ +24	–10 ~ +24	–10 ~ +24	–10 ~ +24	–10 ~ +24

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 SEER/SCOP are measured at ESP 25Pa.
*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.
*6 The height that includes the duct flange is 638 (713) mm. The values in ( ) show the height of unit with leg.
*7 The width includes the pipe cover (sheet metal). The values in ( ) show the width that does not include the pipe cover.
*8 The factory setting of ESP is shown without < >.
*9 SPL measured at ESP 25Pa.

CONTROL TECHNOLOGIES

User-friendly Deluxe Remote Controller with Excellent Operability and Visibility

PAR-41MAA

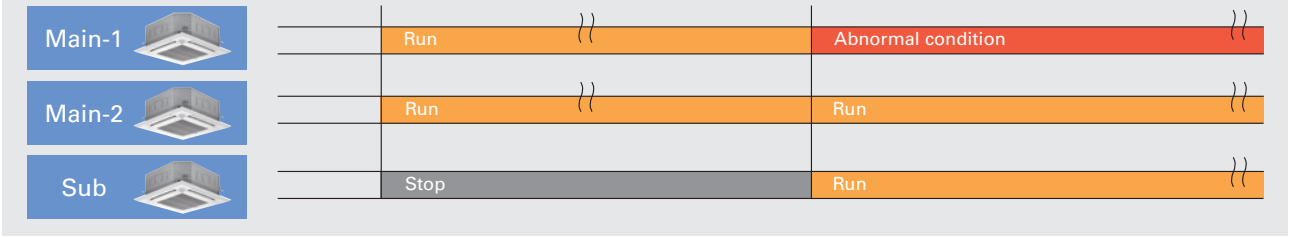
2+1 Back-up Rotation*

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.

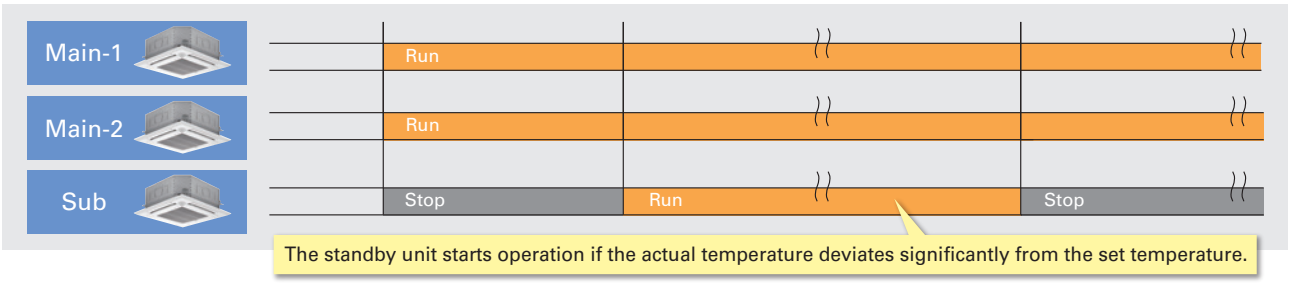


Rotation Function

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.

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.



P

SERIES

SELECTION

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

R32 R410A INDOOR UNIT


4-way ceiling-cassette
PLA-ZM EA
PLA-M EA


Wall-mounted
PKA-M LA(L)
PKA-M KA(L)


Ceiling-concealed
PEAD-M


Ceiling-concealed
PEA-M


Ceiling-suspended
PCA-M


Professional Kitchen
PCA-M HA


Floor-standing
PSA-M

R32 OUTDOOR UNIT

Power Inverter


PUZ-ZM35/50


PUZ-ZM60/71


PUZ-ZM100/125/140


PUZ-ZM200/250

Standard Inverter


SUZ-M35


SUZ-M50


SUZ-M60/71


PUZ-M100/125/140


PUZ-M200/250

✻Some indoor units cannot be used with this unit.

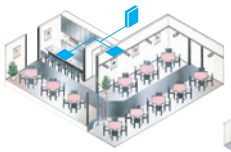
SELECT COMBINATION

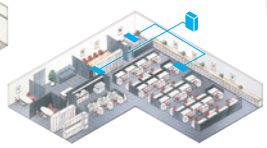
Choose the installation pattern for the indoor units. (In the case of a multi-system, distribution piping is necessary, so please select the necessary piping as well.)

Single System

Simultaneous Multi-System

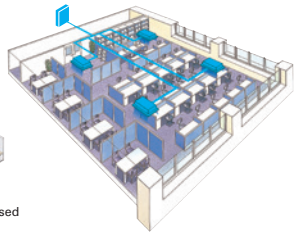
Twin Allows simultaneous operation of two indoor units on one floor.





Triple Can cover a large-scale space or dispersed installation on the same floor.

Quadruple Realises the optimum temperature distribution even in a large space.



Connectable Combinations for Inverter Units

Outdoor Unit Capacity	Indoor Unit Capacity		
	Twin 50 : 50	Triple 33 : 33 : 33	Quadruple 25 : 25 : 25 : 25
71	35 × 2	—	—
100	50 × 2	—	—
125	60 × 2	—	—
140	71 × 2	50 × 3	—
200	100 × 2	60 × 3	50 × 4
250	125 × 2	71 × 3	60 × 4
Distribution Pipe	MSDD-50TR-E MSDD-50WR-E MSDD-50TR2-E 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 energy-efficiency throught use of New R32 refrigerant and advanced technologies.

PUZ-ZM35/50VKA2

PUZ-ZM60/71VHA2

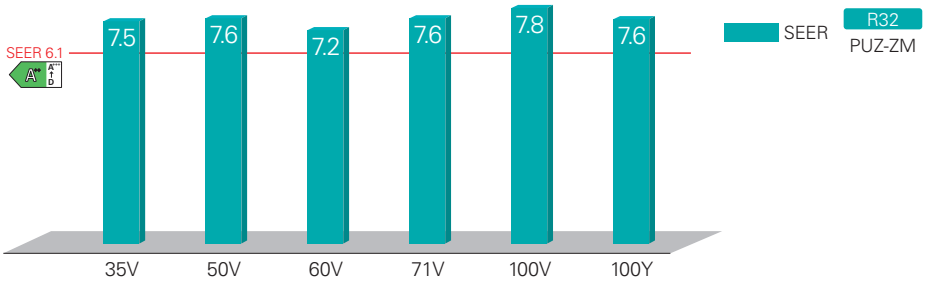
PUZ-ZM100/125/140V(Y)DA

PUZ-ZM200/250YKA2

Industry-leading Energy Efficiency

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

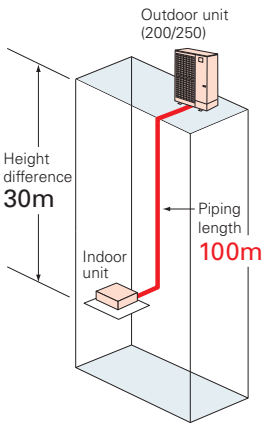
Introduction of R32 refrigerant reduces energy consumption and realises energy savings.



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

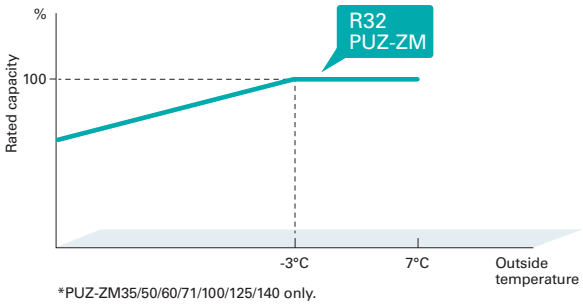
Longer piping length realised for 60, 71, 100, 125, 140, 200 and 250 classes, widely increasing installation flexibility.

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



Rated Heating Capacity Maintained Down to –3°c*

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



*PUZ-ZM35/50/60/71/100/125/140 only.

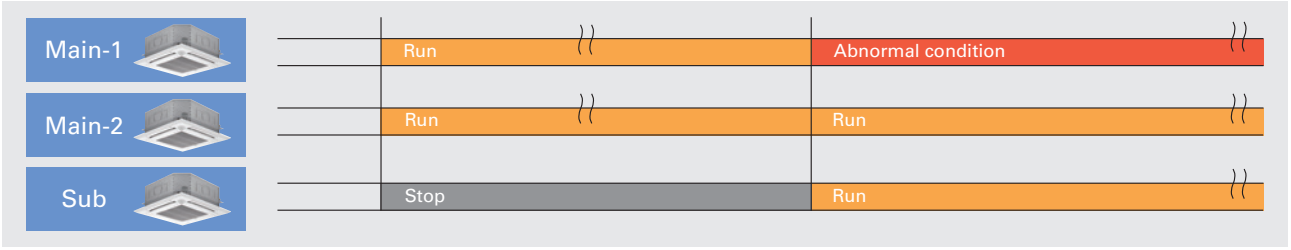
2+1 Back-up Rotation*

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.

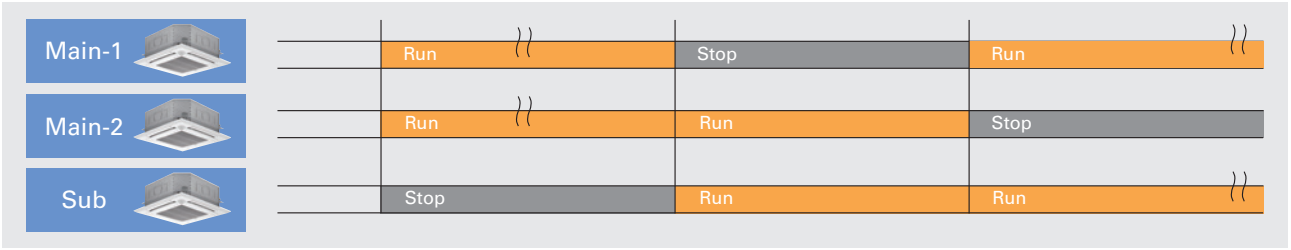
Back-up Function

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.



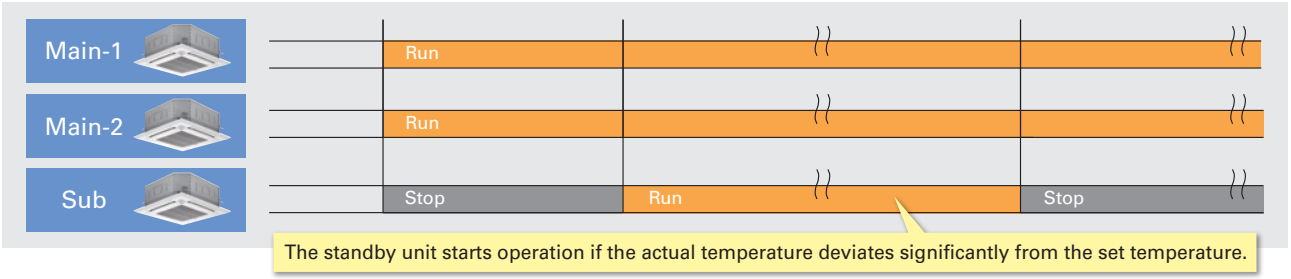
Rotation Function

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.



Cut-in Function

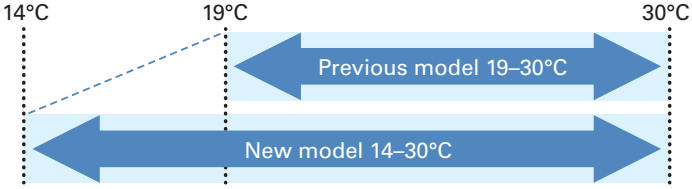
If the actual room temperature greatly differs from the set temperature and two-refrigerant air conditioning system is insufficient, the standby unit starts operation to provide support.



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.

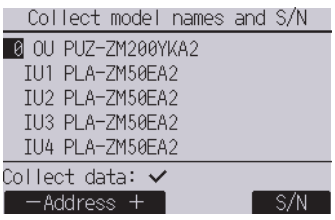


Display of Model Names and Serial Numbers*

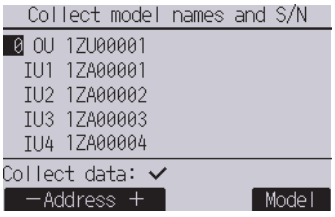
The model names and serial numbers of the indoor/outdoor units that are connected to the MA smart remote controller can be automatically acquired and displayed through one simple operation. This eliminates the need to directly check each unit and helps with inquiries in the case of an abnormality.

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

●Model name display (example)



●Serial number display (example)

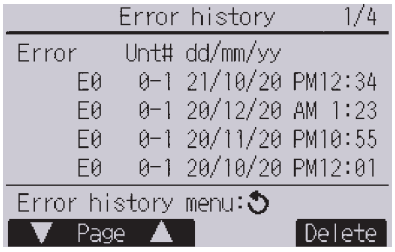


Preliminary Error History*

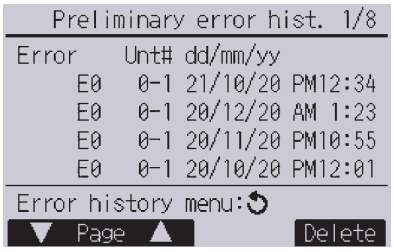
In addition to error history, the history of preliminary abnormalities can be displayed. The feature enables the unit status check during inspection and maintenance.

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

●Error history (Sample)



●Preliminary error history (Sample)



Display of Power Consumption*

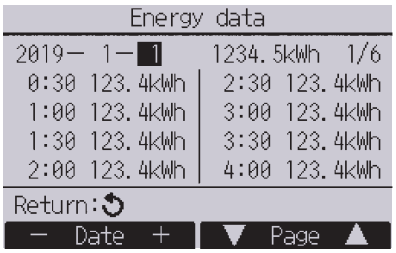
It is possible to measure, acquire, and display the amount of energy used by each air conditioning system.

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

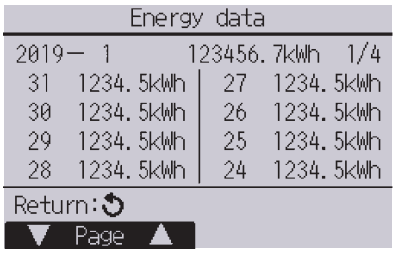
< Data Collection Period >
Time data: Every 30 minutes over the past month
Monthly/daily data: Monthly over the past 14 months

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.

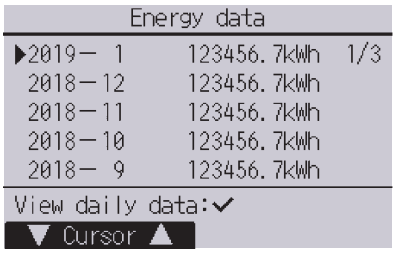
●Every 30 minutes (example)



●Daily (example)



●Monthly (example)



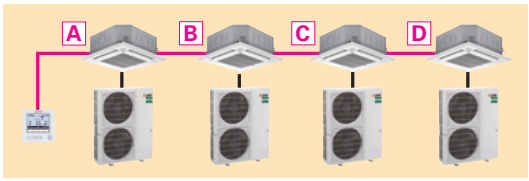
Improved Defrosting Performance*

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

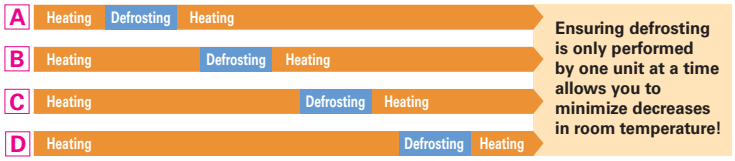
Avoiding Simultaneous Defrosting

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



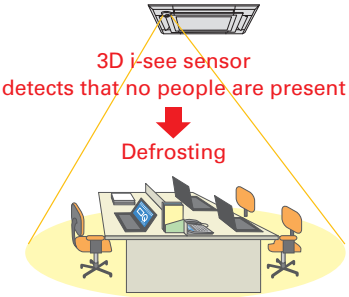
■When All Sets Are Controlled Together



Ensuring defrosting is only performed by one unit at a time allows you to minimize decreases in room temperature!

Defrosting When People Are Absent

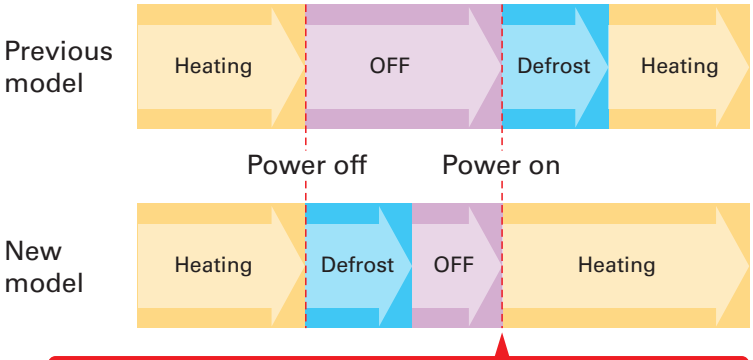
The use of the 3D i-see sensor allows a more comfortable defrosting schedule. After a large amount of frost has built up, the system will switch to defrosting when the 3D i-see sensor detects that no people are present. By minimizing defrosting while people are in the room, there is a much lower chance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

Defrosting When Operation is Stopped

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.



The power turns off after defrosting is complete and the system will start up smoothly the next time it is used.

Easier M-NET Adapter Installation

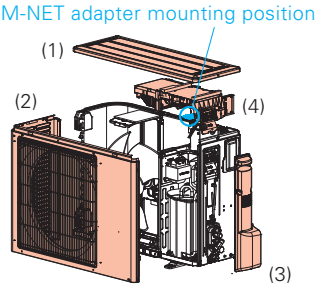
The optional M-NET adapter, which allows centralized control (M-NET control), is now easier to install. The redesigned mounting position significantly reduces the time and effort for installation.

Conventional Model

PAC-SJ96MA-E

Removed parts

The (1) top panel, (2) front panel, (3) service panel, and (4) electronics box need to be removed, and the connector must be temporarily unplugged.

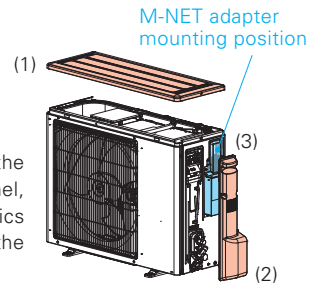


New Model

PAC-SK15MA-E

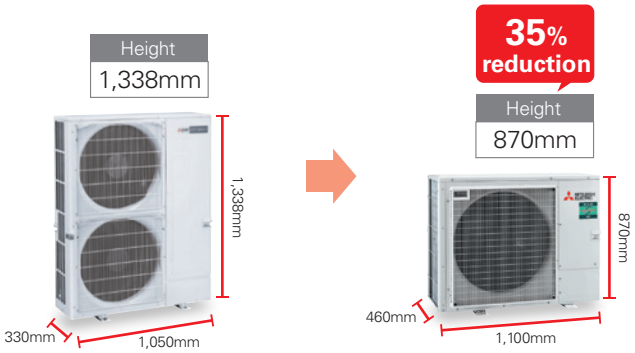
Removed parts

There is no need to remove the (1) top panel, (2) service panel, (3) service plate, electronics box, nor temporarily unplug the connector.



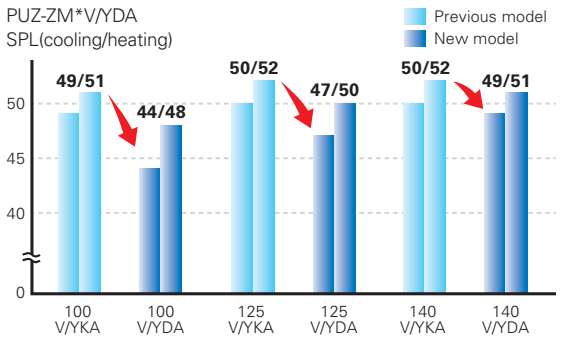
Compact Design ZM100/125/140

ZM100/125/140 compact design fits into narrow outdoor unit space of condominiums and offices.



Low Noise ZM100/125/140

The noise level has been significantly reduced comapared to the conventional models by reviewing the unit structure.



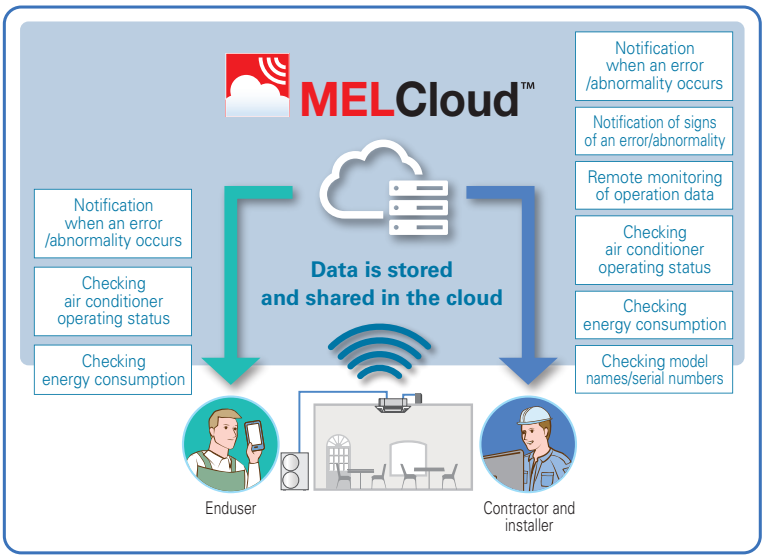
Utilizing IoT for Improved Convenience*

*Availability of IoT functions are depending on MELCloud version.

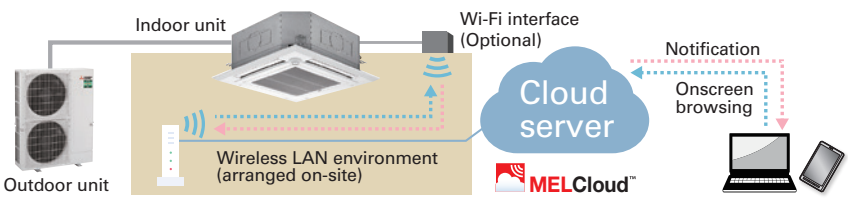
By connecting to a MAC-587IF-E Wi-Fi interface, it is possible to collect data and perform air conditioning control via MELCloud. In addition to basic functions such as turning the power on/off and setting the temperature, it is also possible to acquire data used for maintenance and inspection such as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

[Basic Operation Functions]
- Operation on/off
- Temperature setting
- Operation mode
- Airflow speed
- Airflow direction etc...

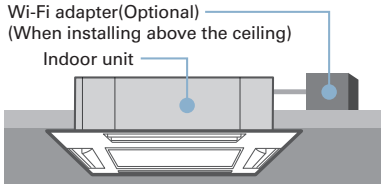
[Data Collection and Display]
- Model name display
- Serial number display
- Collection of operation data
- Energy consumption display etc...



MELCloud System Configuration



Wi-Fi Adapter (Optional) Installation



On-Site Installation and Configuration

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

❷Wireless LAN adapter and router connection settings

❸Wireless LAN adapter and server connection settings

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.

Demand control

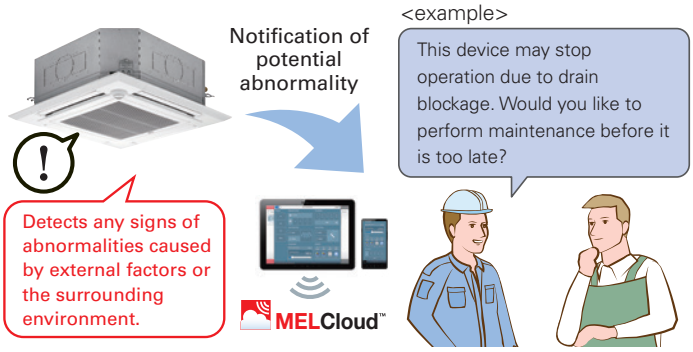
It is possible to control air-conditioners to appropriately operate according to the energy supply-demand adjustment by electric power companies and each electricity rate plan of end users.
e.g. <Peak cut control> It is possible to utilize an external demand signal to reduce power consumption during 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...



Standard Inverter SERIES

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

SUZ-M35VA

SUZ-M50VA

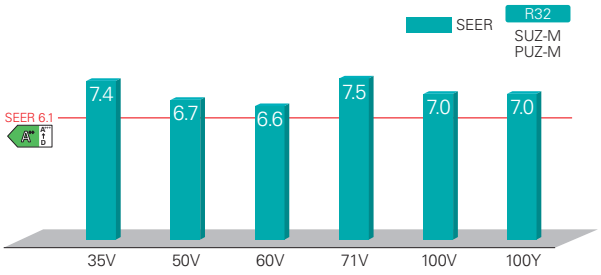
SUZ-M60/71VA

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

PUZ-M200/250YKA2

Improved Energy Efficiency

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

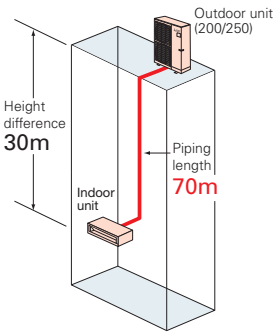


*Specifications are figures when PLA-M is connected.

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

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

	Max. Piping Length
	R32 SUZ-M PUZ-M
25/35	20m
50/60/71	30m
100	55m
125/140	65m
200/250	70m



Light Weight and Compact Size

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

SUZ-KA50VA6

Height 880mm
Weight 54kg

SUZ-M50VA

Height 714mm — 18% reduction
Weight 41kg — 24% reduction

PUHZ-P140YHA2

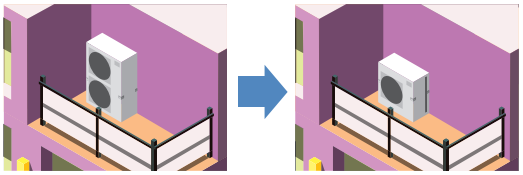
Height 1,350mm
Weight 101kg

PUZ-M140YKA2

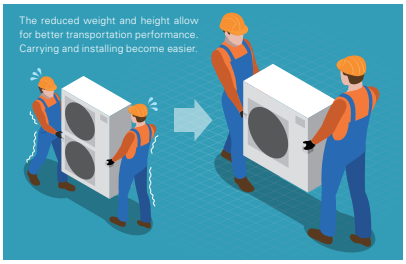
Height 981mm — 27% reduction
Weight 85kg — 15% reduction

Unobstructive, compact, and easy to hide from view

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



Easy transportation and installation



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

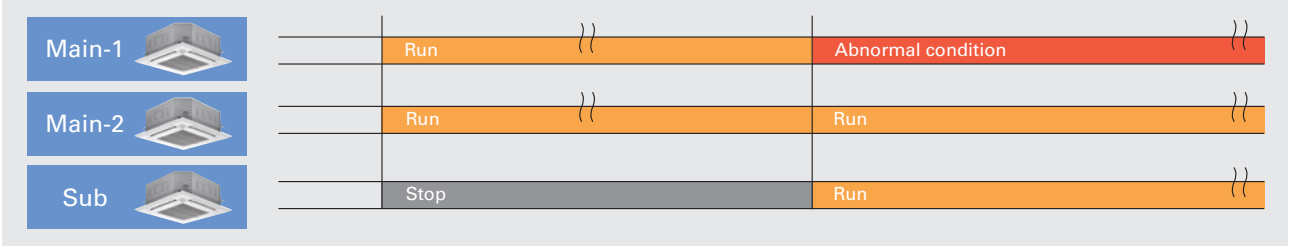
2+1 Back-up Rotation*

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.

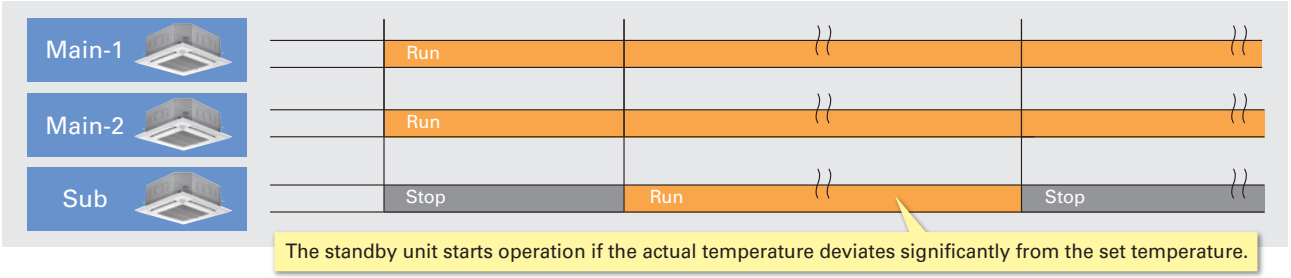


Rotation Function

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.

Cut-in Function

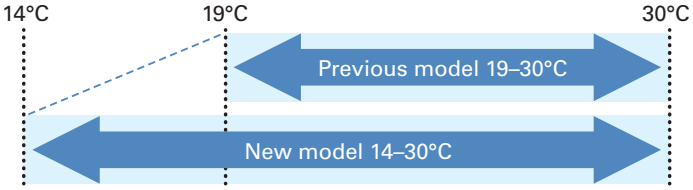
If the actual room temperature greatly differs from the set temperature and two-refrigerant air conditioning system is insufficient, the standby unit starts operation to provide support.



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.

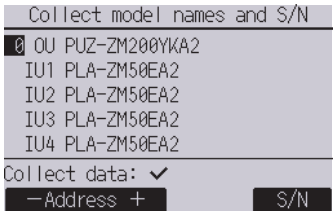


Display of Model Names and Serial Numbers*

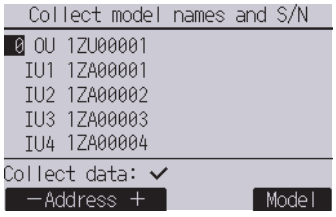
The model names and serial numbers of the indoor/outdoor units that are connected to the MA smart remote controller can be automatically acquired and displayed through one simple operation. This eliminates the need to directly check each unit and helps with inquiries in the case of an abnormality.

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

●Model name display (example)



●Serial number display (example)



Preliminary Error History*

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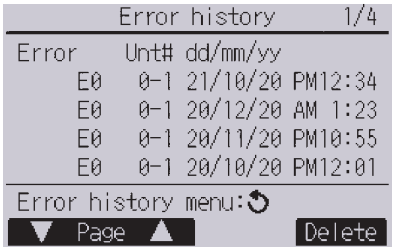
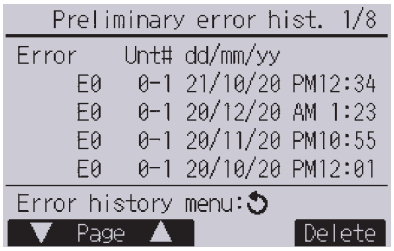
●Error history (Sample)



●Preliminary error history (Sample)



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

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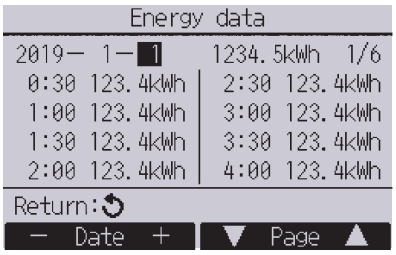
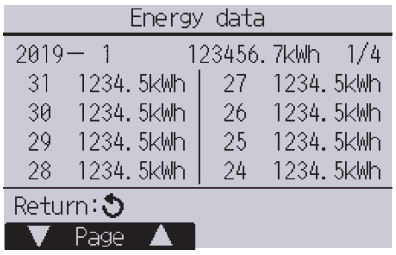
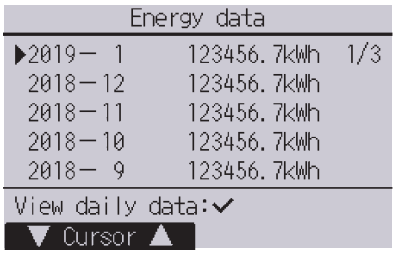


●Daily (example)



●Monthly (example)



Improved Defrosting Performance*

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Avoiding Simultaneous Defrosting

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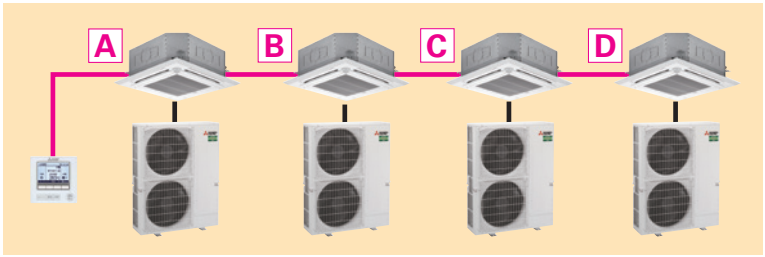
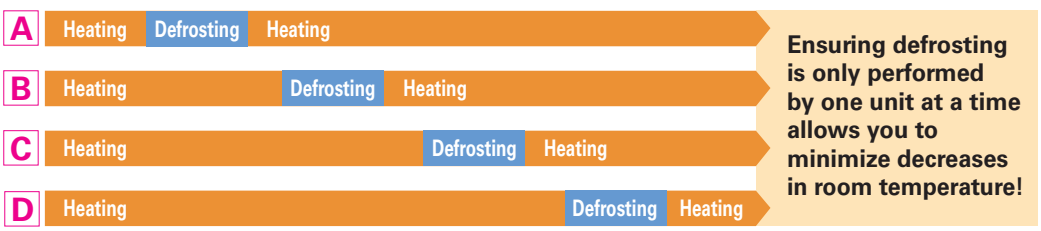
Example System Configuration Four sets controlled by a single remote controller



■When All Sets Are Controlled Together



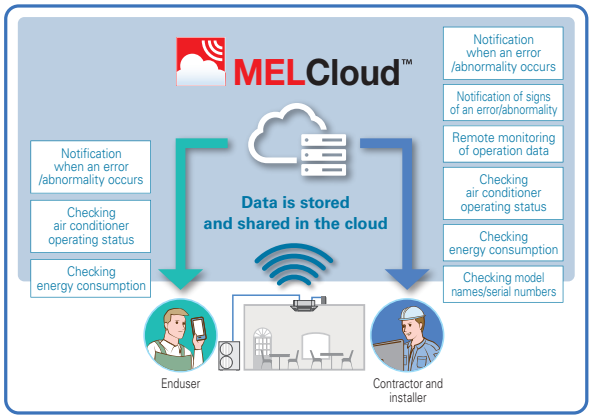
Utilizing IoT for Improved Convenience*

*Availability of IoT functions are depending on MELCloud version.

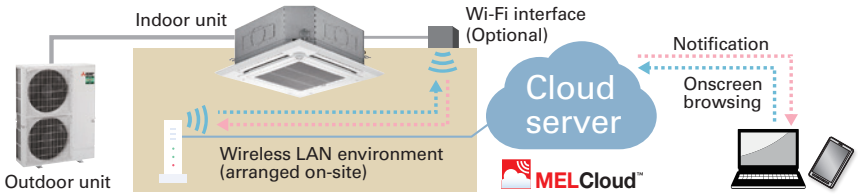
By connecting to a MAC-587IF-E Wi-Fi interface, it is possible to collect data and perform air conditioning control via MELCloud. In addition to basic functions such as turning the power on/off and setting the temperature, it is also possible to acquire data used for maintenance and inspection such as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

[Basic Operation Functions]
- ●Operation on/off ●Temperature setting
- ●Operation mode ●Airflow speed
- ●Airflow direction etc...

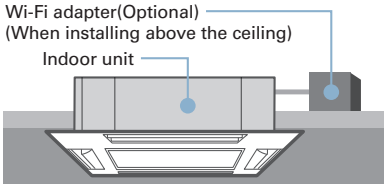
[Data Collection and Display]
- ●Model name display ●Serial number display
- ●Collection of operation data
- ●Energy consumption display etc...



MELCloud System Configuration



Wi-Fi Adapter (Optional) Installation



On-Site Installation and Configuration

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

❷Wireless LAN adapter and router connection settings

❸Wireless LAN adapter and server connection settings

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.

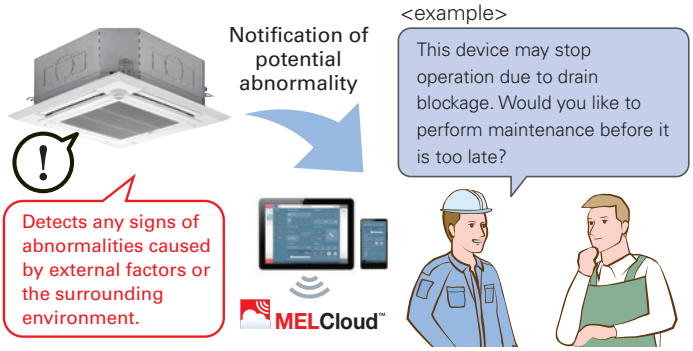
Demand control

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...



R32
R410A

PLA-ZM35/50/60/71/100/125/140EA2

PLA SERIES

R32
R410A

PLA-M35/50/60/71/100/125/140EA2

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

Deluxe 4-way Cassette Line-up

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

■**Line-up**

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

■**Indoor/Outdoor Unit Combinations**

R32 Deluxe 4-way Cassette PLA-ZM EA2

R32 **Power Inverter**

PUZ-ZM35/50 · PUZ-ZM60/71 · PUZ-ZM100/125/140 · PUZ-ZM200/250

R32 Standard 4-way Cassette PLA-M EA2

R32 **Power Inverter**

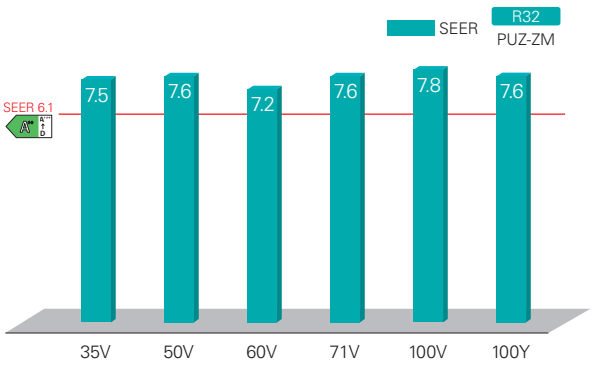
PUZ-ZM35/50 · PUZ-ZM60/71 · PUZ-ZM100/125/140 · PUZ-ZM200/250

R32 **Standard Inverter**

SUZ-M35 · SUZ-M50 · SUZ-M60/71 · PUZ-M100/125/140 · PUZ-M200/250

Industry-leading Energy Efficiency

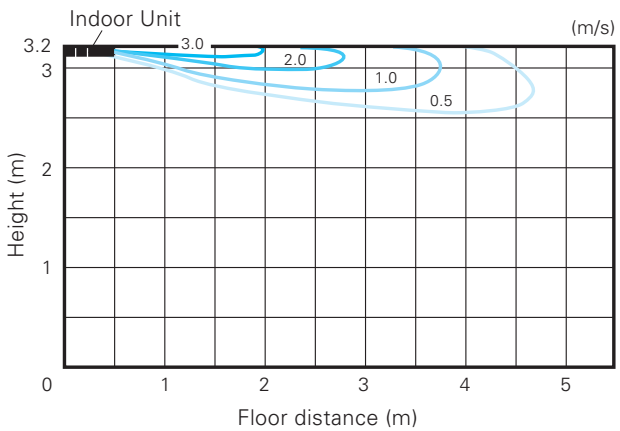
Introduction of R32 refrigerant realises improved cooling efficiency. Rating of more than 7.0 achieved for all capacity range.
Introduction of R32 refrigerant reduces energy consumption and realises energy savings.



Horizontal Airflow

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

[Horizontal airflow]
Model name: PLA-ZM140EA2
Ceiling height: 3.2m
Mode: Cooling



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

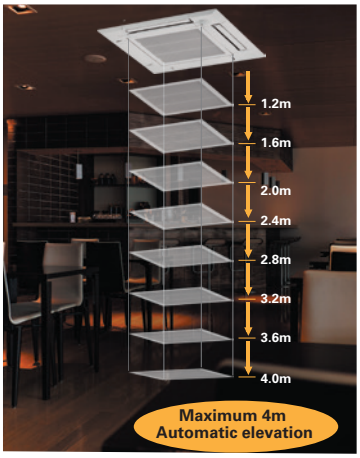
An automatic grille lowering function is available for easy filter maintenance. Special wired and wireless remote controllers can be used to lower the intake grille for maintenance.

*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

Wireless Remote Controller

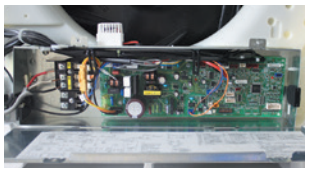


Easy Installation

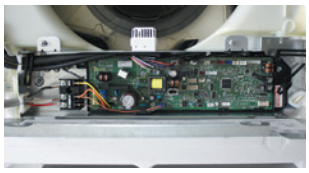
Electrical box wiring

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

■ Previous model (B Series)



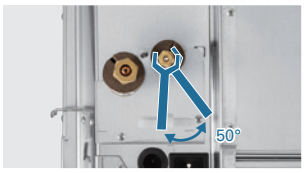
■ New model (E Series)



Increased space for plumbing work

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

■ Previous model (B Series)



■ New model (E Series)

Temporary hanging hook

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

No need to remove screws

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

■ Corner panel

■ Control box cover

Lightweight decorative panel

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

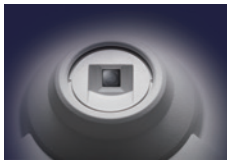
3D i-see Sensor for S & P SERIES

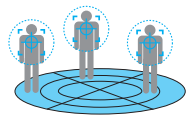
Detects number of people

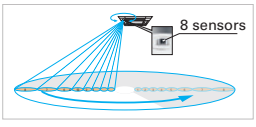
3D i-see Sensor detects the number of people in the room and sets the air-conditioning power accordingly. This makes automatic power-saving operation possible in places where the number of people entering and exiting is large. Additionally, when the area is continuously unoccupied, the system switches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

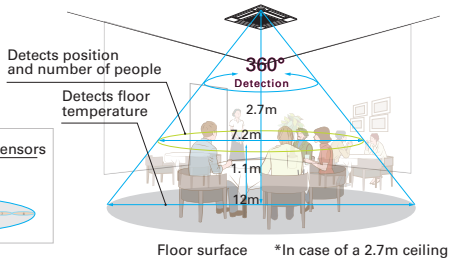
Detects people's position

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









Detects Number of People (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.

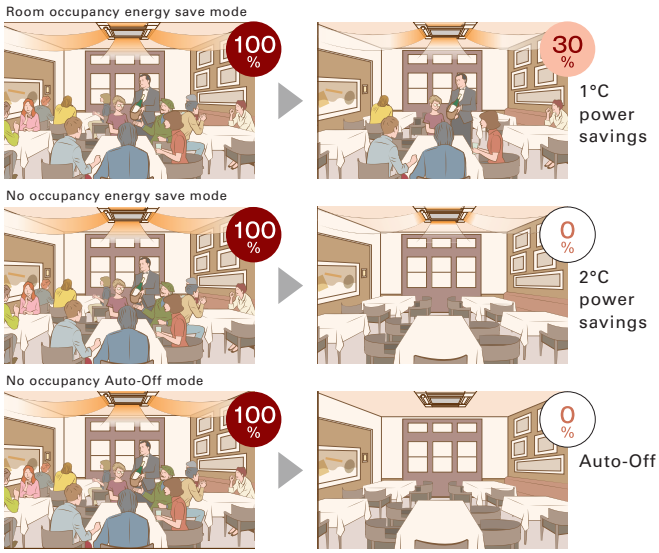
No occupancy energy-saving mode

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.

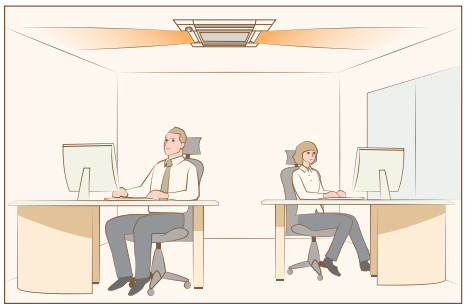


*PAR-41MAA is required for each setting

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.

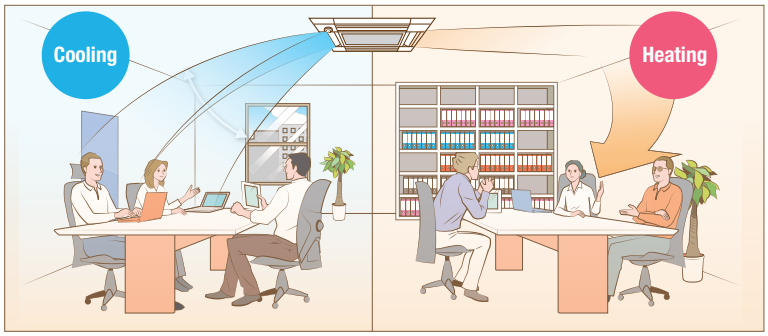


*PAR-41MAA or PAR-SL101A-E is required for each setting.

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.

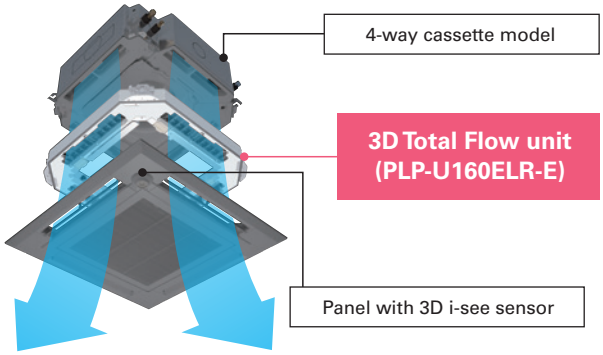


*PAR-41MAA is required for each setting.

3D Total Flow*

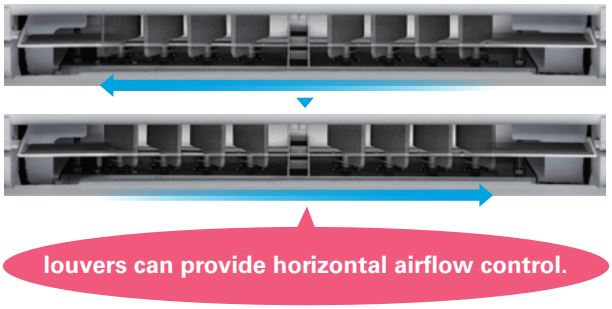
3D Total Flow is an innovative function. Our original 3D i-see sensor detects the temperature of the floor, and then the newly installed 3D Total Flow unit automatically controls the airflow in the left/right directions in a smart manner.

*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)

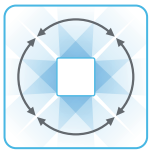


Horizontal Louver (3D Total Flow)

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.



Fine-tuned Sensing & Airflow Direction Control (3D Total Flow)



Swinging

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

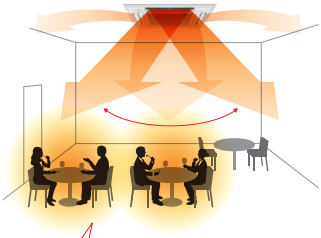
Horizontal, vertical, and diagonal airflow delivered to every corner

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.

Without 3D Total Flow

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

With 3D Total Flow



Swinging in both the vertical and horizontal directions provides a pleasant breeze throughout the room.

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.

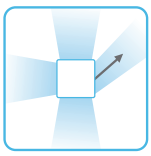
Without 3D Total Flow

Models that are only equipped with vertical vanes need to swing the airflow upward to avoid people. This makes it difficult to warm up the surrounding space.

With 3D Total Flow

Now, it is easier to warm the surrounding space while still ensuring people do not receive direct blow.

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



Targeting

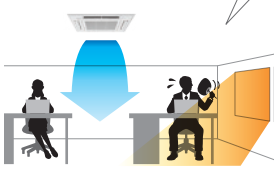
The system can detect spaces with uneven temperatures and target them by sending air even if they are in a diagonal direction.

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.

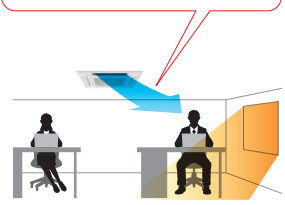
Without 3D Total Flow

Depending on application, conventional systems may take a long time to cool down hot spots.



With 3D Total Flow

The new system efficiently eliminates hot spots by using targeted airflow.



Direct mode

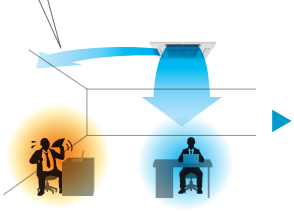
When set to "Direct" mode, the system detects the position and diverts airflow towards wherever they are located.

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

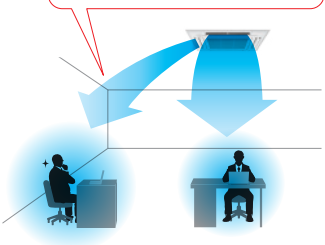
Without 3D Total Flow

It is difficult to direct airflow in diagonal directions when only using vertical vanes.



With 3D Total Flow

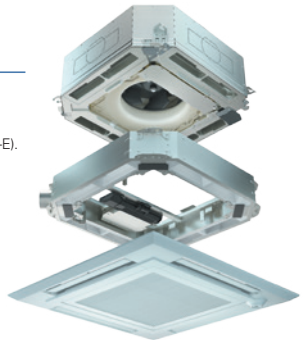
Ensures comfort even when you are located diagonally from an outlet.



Connectable to Plasma Quad Connect*

The optional Plasma Quad Connect PAC-SK51FT-E can be installed on the indoor units.

*Plasma Quad Connect(PAC-SK51FT-E) 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-SH59KF-E).



SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A

Panel PLA-ZM35/50/60/71/100/125/140EA2

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA(B)				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EALE	✓	✓		
PLP-6EAJ*	✓			✓
PLP-6EAJE*	✓	✓		✓
PLP-6EALM2	✓		✓	
PLP-6EALME2	✓	✓	✓	

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

Outdoor Unit

R32

For Single


PUZ-ZM35/50


PUZ-ZM60/71


PUZ-ZM100/125/140

R32

For Multi (Twin/Triple/Quadruple)

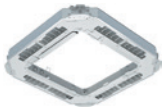

PUZ-ZM71


PUZ-ZM100/125/140

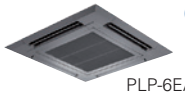

PUZ-ZM200/250

3D Total Flow Unit

PLP-U160ELR-E (optional)



Black Panel


PLP-6EAB (optional)

Remote Controller


Optional


Optional


Optional


*

*Enclosed in PLP-6EALM2/ PLP-6EALME2

PLA-ZM EA2 Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	–	–	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	–	–	–	–	–	–	–	–	–	MSDD-50TR2-E				MSDD-50WR2-E		MSDT-111R3-E			MSDF-1111R2-E	

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R32
R410A

Panel PLA-M35/50/60/71/100/125/140EA2

Panel	With Signal Receiver	With 3D i-see Sensor	With Wireless Remote Controller	With Auto Elevation
PLP-6EA(B)				
PLP-6EAL	✓			
PLP-6EAE		✓		
PLP-6EALE	✓	✓		
PLP-6EAJ*	✓			✓
PLP-6EAJE*	✓	✓		✓
PLP-6EALM2	✓		✓	
PLP-6EALME2	✓	✓	✓	

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

Outdoor Unit

R32

For Single


SUZ-M35


SUZ-M50


SUZ-M60/71


PUZ-M100/125/140

R32

For Multi (Twin/Triple/Quadruple)

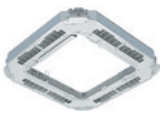

PUZ-M100/125/140


PUZ-M200/250

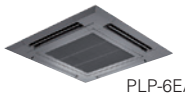
3D Total Flow Unit

PLP-U160ELR-E* (optional)

*SUZ combination is not available.



Black Panel


PLP-6EAB (optional)

Remote Controller


Optional


Optional


Optional


*

*Enclosed in PLP-6EALM2/ PLP-6EALME2

PLA-M EA2 Indoor Unit Combinations

Indoor unit combinations shown below are possible.

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

PLA-ZM SERIES
POWER INVERTER

Type				Inverter Heat Pump									
Indoor Unit				PLA-ZM35EA2	PLA-ZM50EA2	PLA-ZM60EA2	PLA-ZM71EA2	PLA-ZM100EA2	PLA-ZM100EA2	PLA-ZM125EA2	PLA-ZM125EA2	PLA-ZM140EA2	PLA-ZM140EA2
Outdoor Unit				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VDA	PUZ-ZM100YDA	PUZ-ZM125VDA	PUZ-ZM125YDA	PUZ-ZM140VDA	PUZ-ZM140YDA
Refrigerant (*1)				R32									
Power Supply	Source			Outdoor power supply									
	Outdoor(V/Phase/Hz)			VKA·VHA:230/Single/50				VDA:230/Single/50, YDA/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	5.1 - 14.0	5.1 - 14.0	5.4 - 15.0	5.4 - 15.0
	Total Input	Rated	kW	0.705	1.106	1.452	1.651	2.160	2.160	3.473	3.473	3.622	3.622
	EER			5.10	4.52	4.20	4.30	4.40	4.40	3.60	3.60	3.70	3.70
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	—	—	—	—
	Annual electricity consumption (*2)		kWh/a	168	230	296	327	426	436	—	—	—	—
	SEER (*4)			7.5	7.6	7.2	7.6	7.8	7.6	—	—	—	—
		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	2.7 - 14.0	2.7 - 14.0	3.2 - 16.0	3.2 - 16.0	3.7 - 18.0	3.7 - 18.0
	Total Input	Rated	kW	0.820	1.363	1.707	1.818	2.667	2.667	3.889	3.889	4.572	4.572
	COP			5.00	4.40	4.10	4.40	4.20	4.20	3.60	3.60	3.50	3.50
	Design load		kW	2.5	3.8	4.4	4.7	7.8	7.8	—	—	—	—
	Declared Capacity	at reference design temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	—	—	—	—
		at bivalent temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	—	—	—	—
		at operation limit temperature	kW	2.1 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.4 (-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	744	1086	1339	1371	2273	2274	—	—	—	—
	SCOP (*4)			4.7	4.9	4.6	4.8	4.8	4.8	—	—	—	—
		Energy efficiency class		A++	A++	A++	A++	A++	A++	—	—	—	—
Operating Current(Max)			A	13.2	13.2	19.2	19.3	27.0	8.5	27.0	9.5	30.7	9.7
Indoor Unit	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
	Operating Current(Max)		A	0.21	0.22	0.22	0.34	0.47	0.47	0.52	0.52	0.66	0.66
	Dimensions	H*W*D	mm	258-840-840 <40-950-950>				298-840-840 <40-950-950>					
	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)		m³/min	11-13-15-16	12-14-16-18	12-14-16-18	17-19-21-23	19-22-25-28	19-22-25-28	21-24-26-29	21-24-26-29	24-26-29-32	24-26-29-32
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	26-28-29-31	27-29-31-32	27-29-31-32	28-30-33-36	31-34-37-40	31-34-37-40	33-36-39-41	33-36-39-41	36-39-42-44	36-39-42-44
	Sound Level (PWL)		dB(A)	51	54	54	57	61	61	62	62	65	65
Outdoor Unit	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)
	Weight		kg	46	46	67	67	107	114	107	116	107	121
	Air Volume	Cooling	m³/min	45	45	55	55	80	80	84	84	97	97
		Heating	m³/min	45	45	55	55	58	58	77	77	80	80
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	44	44	47	47	49	49
		Heating	dB(A)	46	46	49	49	48	48	50	50	51	51
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	63	63	66	66	68	68
	Operating Current(Max)		A	13	13	19	19	26.5	8	26.5	9	30	9
	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	9.52 / 15.88
	Max.Length	Out-In	m	50	50	55	55	100	100	100	100	100	100
	Max.Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling (*3)	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46
		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012. *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PLA-M SERIES
STANDARD INVERTER

Type				Inverter Heat Pump									
Indoor Unit				PLA-M35EA2	PLA-M50EA2	PLA-M60EA2	PLA-M71EA2	PLA-M100EA2	PLA-M100EA2	PLA-M125EA2	PLA-M125EA2	PLA-M140EA2	PLA-M140EA2
Outdoor Unit				SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA2	PUZ-M100YKA2	PUZ-M125VKA2	PUZ-M125YKA2	PUZ-M140VKA2	PUZ-M140YKA2
Refrigerant(*1)				R32									
Power Supply	Source			Outdoor power supply									
	Outdoor(V/Phase/Hz)			VA·VKA:230/Single/50, YKA:400/Three/50									
Cooling	Capacity	Rated	kW	3.6	5.5	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
		Min-Max	kW	0.8 - 3.9	1.2 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	5.8 - 13.0	5.8 - 13.0	5.8 - 14.1	5.8 - 14.1
	Total Input	Rated	kW	0.900	1.617	1.848	1.918	2.714	2.714	4.019	4.019	4.962	4.962
	EER			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	–	–	–	–
	Annual electricity consumption (*2)		kWh/a	170	285	320	331	475	475	–	–	–	–
	SEER (*4)			7.4	6.7	6.6	7.5	7.0	7.0	–	–	–	–
		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	0.976	1.734	1.842	2.216	3.018	3.018	3.638	3.638	4.398	4.398
	COP			4.20	3.46	3.80	3.61	3.71	3.71	3.71	3.71	3.41	3.41
	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)		kWh/a	774	1458	1459	1798	2406	2406	–	–	–	–
	SCOP (*4)			4.7	4.1	4.4	4.5	4.6	4.6	–	–	–	–
		Energy efficiency class		A++	A+	A+	A+	A++	A++	–	–	–	–
Operating Current(Max)			A	8.7	13.7	15.0	15.1	20.5	12	27.2	12.2	30.7	12.2
Indoor Unit	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 / 0.10
	Operating Current(Max)		A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66
	Dimensions	H*W*D	mm	258-840-840 <40-950-950>				298-840-840 <40-950-950>					
	Weight		kg	19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	11-13-15-16	12-14-16-18	12-14-16-18	14-17-19-21	19-23-26-29	19-23-26-29	21-25-28-31	21-25-28-31	24-26-29-32	24-26-29-32
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	26-28-29-31	27-29-31-32	27-29-31-32	28-30-32-34	31-34-37-40	31-34-37-40	33-37-41-44	33-37-41-44	36-39-42-44	36-39-42-44
	Sound Level (PWL)		dB(A)	51	54	54	56	61	61	65	65	65	65
Outdoor Unit	Dimensions	H*W*D	mm	550-800-285	714-800-285	880-840-330	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)
	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	10	20	20	20	32	16	32	16	40	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	9.52 / 15.88
	Max.Length	Out-In	m	20	30	30	30	55	55	65	65	65	65
	Max.Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling (*3)	°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

*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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C. Only available for PUZ.
*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.

PLA-M SERIES
POWER INVERTER

Type				Inverter Heat Pump									
Indoor Unit				PLA-M35EA2	PLA-M50EA2	PLA-M60EA2	PLA-M71EA2	PLA-M100EA2	PLA-M100EA2	PLA-M125EA2	PLA-M125EA2	PLA-M140EA2	PLA-M140EA2
Outdoor Unit				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VDA	PUZ-ZM100YDA	PUZ-ZM125VDA	PUZ-ZM125YDA	PUZ-ZM140VDA	PUZ-ZM140YDA
Refrigerant[*1]				R32									
Power Supply	**Source**			Outdoor power supply									
	Outdoor(V/Phase/Hz)			VKA·VHA:230/Single/50				VDA:230/Single/50, YDA/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	5.1 - 14.0	5.1 - 14.0	5.4 - 15.0	5.4 - 15.0
	Total Input	Rated	kW	0.751	1.175	1.523	1.716	2.210	2.210	3.572	3.572	3.744	3.744
	EER			4.79	4.25	4.00	4.14	4.30	4.30	3.50	3.50	3.58	3.58
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	---	---	---	---
	Annual electricity consumption[*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++	---	---	---	---
Heating (Average Season)	**Capacity**	Rated	kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
		Min-Max	kW	1.6 - 5.2	2.5 - 7.3	2.8 - 8.2	3.5 - 10.2	2.7 - 14.0	2.7 - 14.0	3.2 - 16.0	3.2 - 16.0	3.7 - 18.0	3.7 - 18.0
	Total Input	Rated	kW	0.890	1.581	1.863	2.014	2.686	2.686	4.000	4.000	4.572	4.572
	COP			4.61	3.79	3.76	3.97	4.17	4.17	3.50	3.50	3.50	3.50
	Design load		kW	2.5	3.8	4.4	4.7	7.8	7.8	---	---	---	---
	Declared Capacity	at reference design temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	---	---	---	---
		at bivalent temperature	kW	2.5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	---	---	---	---
		at operation limit temperature	kW	2.1 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.4 (-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	798	1187	1422	1429	2489	2490	---	---	---	---
	SCOP[*4]			4.3	4.4	4.3	4.6	4.3	4.3	---	---	---	---
		Energy efficiency class		A+	A+	A+	A++	A+	A+	---	---	---	---
Operating Current(Max)			A	13.2	13.2	19.2	19.3	27.0	8.5	27.2	9.7	30.7	9.7
Indoor Unit	**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 / 0.10
	Operating Current(Max)		A	0.20	0.22	0.24	0.27	0.46	0.46	0.66	0.66	0.66	0.66
	Dimensions	H*W*D	mm	258-840-840 <40-950-950>				298-840-840 <40-950-950>					
	Weight		kg	19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>
	Air 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
	Sound Level (Lo-Mid-Hi) (SPL)		dB(A)	26-28-29-31	27-29-31-32	27-29-31-32	28-30-32-34	31-34-37-40	31-34-37-40	33-37-41-44	33-37-41-44	36-39-42-44	36-39-42-44
	Sound Level (PWL)		dB(A)	51	54	54	56	61	61	65	65	65	65
Outdoor Unit	**Dimensions**	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)
	Weight		kg	46	46	67	67	107	114	107	116	107	121
	Air Volume	Cooling	m³/min	45	45	55	55	80	80	84	84	97	97
		Heating	m³/min	45	45	55	55	58	58	77	77	80	80
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	44	44	47	47	49	49
		Heating	dB(A)	46	46	49	49	48	48	50	50	51	51
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	63	63	66	66	68	68
	Operating Current(Max)		A	13	13	19	19	26.5	8	26.5	9	30	9
	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	9.52 / 15.88
	Max.Length	Out-In	m	50	50	55	55	100	100	100	100	100	100
	Max.Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling[*3]	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46
		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.
*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PEAD SERIES

R32
R410A

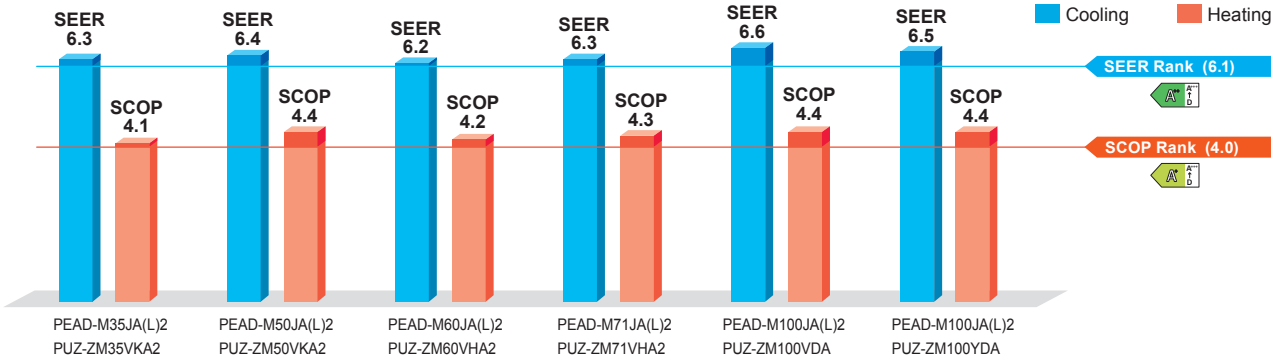
PEAD-M35/50/60/71/100/125/140JA2

Energy efficiency has been improved. A reduced electricity consumption contributes to a further reduction in operating cost. The thin body with a wide-ranged external static pressure of this series is the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space.

ErP Lot-10 Compliant, Achieving High Energy Efficiency

DC Inverter SEER SCOP

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.

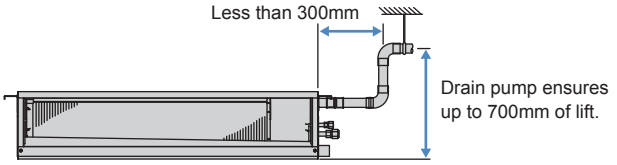
Selectable Static Pressure Levels

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 SELECTION

Power Inverter Series

Indoor Unit

R32
R410A

PEAD-M35/50/60/71/100/125/140JA(L)2

Outdoor Unit

R32

For Single

PUZ-ZM35/50

PUZ-ZM60/71

PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple/Quadruple)

PUZ-ZM71

PUZ-ZM100/125/140

PUZ-ZM200/250

Remote Controller

Optional

Optional

Optional

Optional*

Optional*

* PAR-SA9CA-E is also required.

PEAD-M JA(L)2 Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	–	–	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	–	–	–	–	–	–	–	–	–	MSDD-50TR2-E				MSDD-50WR2-E		MSDT-111R3-E			MSDF-1111R2-E	

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R32
R410A

PEAD-M35/50/60/71/100/125/140JA(L)2

Outdoor Unit

R32

For Single

SUZ-M35

SUZ-M50

SUZ-M60/71

PUZ-M100/125/140

R32

For Multi
(Twin/Triple/Quadruple)

PUZ-M100/125/140

PUZ-M200/250

Remote Controller

Optional

Optional

Optional

Optional*

Optional*

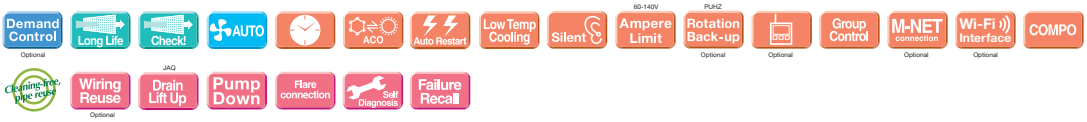
* PAR-SA9CA-E is also required.

PEAD-M JA(L)2 Indoor Unit Combinations

Indoor unit combinations shown below are possible.

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

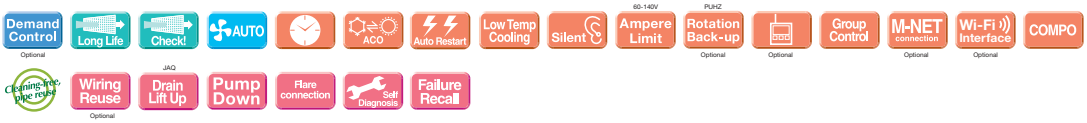
PEAD-M SERIES
POWER INVERTER



Type				Inverter Heat Pump									
Indoor Unit				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 Unit				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VDA	PUZ-ZM100YDA	PUZ-ZM125VDA	PUZ-ZM125YDA	PUZ-ZM140VDA	PUZ-ZM140YDA
Refrigerant[*1]				R32									
Power Supply	Source			Outdoor power supply									
	Outdoor(V/Phase/Hz)			VKA·VHA:230/Single/50				VDA:230/Single/50, YDA/400/Three/50					
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min-Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.1 - 14.0	5.1 - 14.0	5.4 - 15.0	5.4 - 15.0
	Total Input	Rated	kW	0.837	1.190	1.487	1.775	2.262	2.262	3.379	3.379	3.702	3.702
	EER[*4]			4.30	4.20	4.10	4.00	4.20	4.20	3.70	3.70	3.62	3.62
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	—	—	—	—
	Annual electricity consumption [*2]		kWh/a	199	273	342	393	499	499	—	—	—	—
	SEER[*4][*5]			6.3	6.4	6.2	6.3	6.6	6.6	—	—	—	—
		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	2.7 - 14.0	2.7 - 14.0	3.2 - 16.0	3.2 - 16.0	3.7 - 18.0	3.7 - 18.0
	Total Input	Rated	kW	0.911	1.363	1.590	1.904	2.546	2.546	3.764	3.764	4.103	4.103
	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	2445	2445	—	—	—	—
	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	28.8	10.3	28.8	11.3	32.6	11.6
Indoor Unit	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
	Operating Current(Max)		A	1.16	1.35	1.85	1.9	2.25	2.25	2.34	2.34	2.63	2.63
	Dimensions	H*W*D	mm	250×900×732	250×900×732	250×1100×732	250×1100×732	250×1400×732	250×1400×732	250×1400×732	250×1400×732	250×1600×732	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	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	14.5-18.0-23.0	23.0-28.0-32.0	23.0-28.0-32.0	28.0-34.0-37.0	28.0-34.0-37.0	29.5-35.5-40.0	29.5-35.5-40.0
	External Static Pressure[*7]		Pa	35-<50>-<70>-<100>-<150>			40-<50>-<70>-<100>-<150>			<40>-50-<70>-<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 Unit	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)	870-1100-460(+45)
	Weight		kg	46	46	67	67	107	114	107	116	107	121
	Air Volume	Cooling	m³/min	45	45	55	55	80	80	84	84	97	97
		Heating	m³/min	45	45	55	55	58	58	77	77	80	80
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	44	44	47	47	49	49
		Heating	dB(A)	46	46	49	49	48	48	50	50	51	51
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	63	63	66	66	68	68
	Operating Current(Max)		A	13	13	19	19	26.5	8	26.5	9	30	9
	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	9.52 / 15.88	9.52 / 15.88
	Max.Length	Out-In	m	50	50	55	55	100	100	100	100	100	100
	Max.Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling[*3]	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46
		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C. *4 EER/COP and SEER/SCOP for 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 < >.

PEAD-M SERIES
STANDARD INVERTER



Type				Inverter Heat Pump									
Indoor Unit				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 Unit				SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA2	PUZ-M100YKA2	PUZ-M125VKA2	PUZ-M125YKA2	PUZ-M140VKA2	PUZ-M140YKA2
Refrigerant[*1]				R32									
Power Supply	Source			Outdoor power supply									
	Outdoor(V/Phase/Hz)			VA·VKA:230/Single/50, YKA:400/Three/50									
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
		Min-Max	kW	0.8 - 3.9	1.7 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	6.0 - 13.0	6.0 - 13.0	6.1 - 14.1	6.1 - 14.1
	Total Input	Rated	kW	0.923	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 consumption [*2]		kWh/a	199	277	345	397	538	538	–	–	–	–
	SEER[*4][*5]			6.3	6.3	6.1	6.2	6.1	6.1	–	–	–	–
		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	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	2.8 - 12.5	2.8 - 12.5	4.1 - 15.0	4.1 - 15.0	4.2 - 15.8	4.2 - 15.8
	Total Input	Rated	kW	1.025	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	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]		kWh/a	884	1417	1558	1973	2725	2725	–	–	–	–
	SCOP[*4][*5]			4.1	4.2	4.1	4.1	4.1	4.1	–	–	–	–
		Energy efficiency class		A+	A+	A+	A+	A+	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 Unit	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
	Operating Current(Max)		A	1.16	1.35	1.85	1.9	2.25	2.25	2.34	2.34	2.63	2.63
	Dimensions	H*W*D	mm	250×900×732	250×900×732	250×1100×732	250×1100×732	250×1400×732	250×1400×732	250×1400×732	250×1400×732	250×1600×732	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	10.0-12.0-14.0	12.0-14.5-17.0	14.5-18.0-21.0	14.5-18.0-23.0	23.0-28.0-32.0	23.0-28.0-32.0	28.0-34.0-37.0	28.0-34.0-37.0	29.5-35.5-40.0	29.5-35.5-40.0
	External Static Pressure[*7]		Pa	35-<50>-<70>-<100>-<150>			40-<50>-<70>-<100>-<150>			<40>-50-<70>-<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 Unit	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)
	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.Piping	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
Guaranteed Operating Range (Outdoor)		Cooling[*3]	°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21

*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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C. Only available for PUZ. *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 < >.

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.

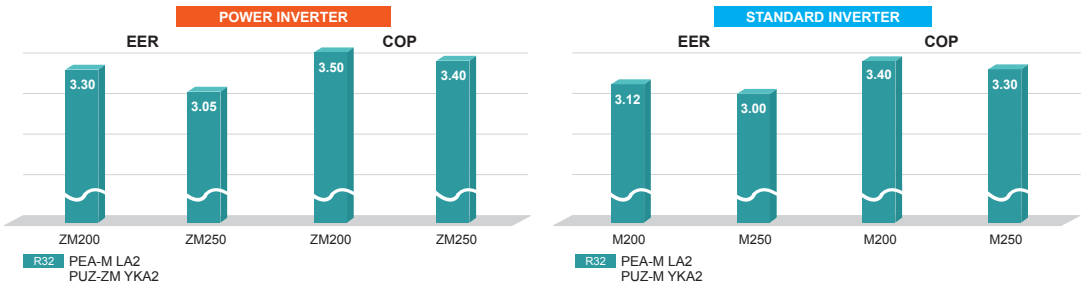
R32
R410A

PEA-M200/250LA2

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

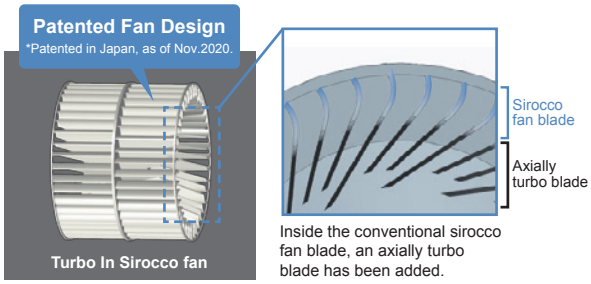
Improved Energy Efficiency

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

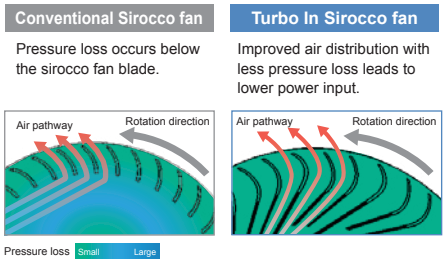


Low input with Fan Design

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.



Inside the conventional sirocco fan blade, an axially turbo blade has been added.



Wide Range of External Static Pressure Allows Flexible Duct Design

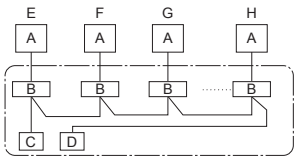
250Pa setting is newly added enabling total of five static pressure level. The ability to select additional static pressure enables long duct and more freedom in design.

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.



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

LINE-UP

Indoor Unit

R32

PEA-M200/250LA2

Outdoor Unit

R32

Power Inverter Series

PUZ-ZM200/250

Standard Inverter Series

PUZ-M200/250

Remote Controller

Optional

Optional

Optional

PEA-M SERIES
POWER INVERTER

Type				Inverter Heat Pump	
Indoor Unit				PEA-M200LA2	PEA-M250LA2
Outdoor Unit				PUZ-ZM200YKA2	PUZ-ZM250YKA2
Refrigerant[*1]				R32	
Power Supply	Source			Separate power supply	
	Outdoor(V/Phase/Hz)			400/Three/50	
Cooling	Capacity	Rated	kW	19.0	22.0
		Min-Max	kW	9.2 - 22.4	9.9 - 27.0
	Total Input	Rated	kW	5.757	7.213
	EER			3.30	3.05
Heating	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
Operating	Current(Max)		A	27.3	27.3
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.32	0.48
	Operating Current(Max)		A	4.8	4.8
	Dimensions	H*W*D	mm	470-1370-1120	
	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)/(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
Outdoor Unit	Dimensions	H*W*D	mm	1338-1050-330(+40)	1338-1050-330(+40)
	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
Ext.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
Guaranteed 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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, 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 Optional air protection guide is required where ambient temperature is lower than -5°C.
*3 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PEA-M SERIES
STANDARD INVERTER

Type				Inverter Heat Pump	
Indoor Unit				PEA-M200LA2	PEA-M250LA2
Outdoor Unit				PUZ-M200YKA2	PUZ-M250YKA2
Refrigerant[*1]				R32	
Power Supply	Source			Separate power supply	
	Outdoor(V/Phase/Hz)			400/Three/50	
Cooling	Capacity	Rated	kW	19.0	22.0
		Min-Max	kW	9.2 - 22.4	9.9 - 27.0
	Total Input	Rated	kW	6.089	7.333
	EER			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 Unit	Input [cooling / Heating]	Rated	kW	0.32	0.48
	Operating Current(Max)		A	4.8	4.8
	Dimensions	H*W*D	mm	470-1370-1120	
	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)/(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
Outdoor Unit	Dimensions	H*W*D	mm	1338-1050-330(+40)	1338-1050-330(+40)
	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.Piping	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
Guaranteed 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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, 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 Optional air protection guide is required where ambient temperature is lower than -5°C.
*3 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PKA SERIES

R32
R410A

PKA-M35/50LA(L)2

R32
R410A

PKA-M60/71/100KA(L)2

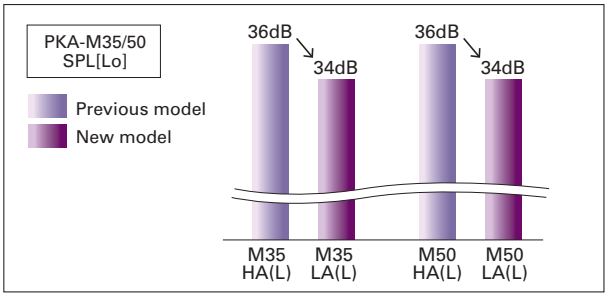
The compact, wall-mounted indoor units offer the convenience of simple installation, and a large product line-up (M35-M100 models) ensures a best-match solution. Designed for highly efficient energy savings, the PKA Series is the answer to your air conditioning needs.

New Design (M35-50)

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

Quietness (M35-50)

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



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.

Previous New

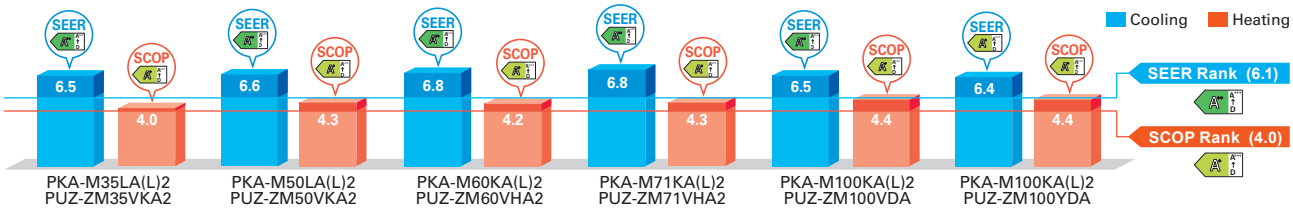
Main Functions of new Wireless Remote Controller

- Weekly Timer
- Backlight
- Dual set point
- Battery replacement sign

etc...

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

Highly efficient indoor unit heat exchangers and newly designed power inverters (PUZ-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.

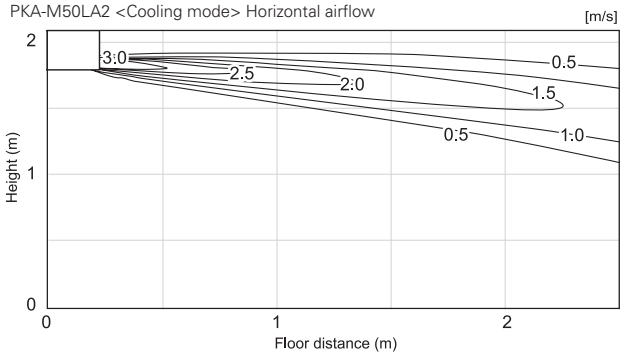


Airflow Control – Horizontal Airflow – (M35-50)

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-M50LA2 <Cooling mode> Horizontal airflow



SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A

PKA-M35/50LA(L)2

PKA-M60/71/100KA(L)2

Outdoor Unit

R32

For Single

PUZ-ZM35/50

PUZ-ZM60/71

PUZ-ZM100

R32

For Multi
(Twin/Triple/
Quadruple)

PUZ-ZM71

PUZ-ZM100/125/140

PUZ-ZM200/250

Remote Controller

Optional (✻)

Optional

Optional (✻)

*PKA-M•KAL2/LAL2 only

(✻) PAC-SH29TC-E is required for LAL and KAL (optional)

PKA-M LA(L)2/KA(L)2 Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination	Outdoor Unit Capacity																			
	For Single									For Twin						For Triple			For Quadruple	
	35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)	35x1	50x1	60x1	71x1	100x1	–	–	–	–	35x2	50x2	60x2	71x2	100x2	–	50x3	60x3	71x3	50x4	60x4
Distribution Pipe	–	–	–	–	–	–	–	–	–	MSDD-50TR2-E				MSDD-50WR2-E	–	MSDT-111R3-E			MSDF-1111R2-E	

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R32
R410A

PKA-M35/50LA(L)2

PKA-M60/71/100KA(L)2

Outdoor Unit

R32

For Single

PUZ-M100

R32

For Multi
(Twin/Triple/Quadruple)

PUZ-M100/125/140

PUZ-M200/250

Remote Controller

Optional (✻)

Optional

Optional (✻)

*PKA-M•KAL2/LAL2 only

(✻) PAC-SH29TC-E is required for LAL and KAL (optional)

PKA-M LA(L)2/KA(L)2 Indoor Unit Combinations

Indoor unit combinations shown below are possible.

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

PKA-M SERIES
POWER INVERTER

Demand Control (Optional) · Pure White · AUTO VANE · Check! (Optional) · SWING · AUTO · ACO · Auto Restart · Low Temp Cooling · Silent · Ampere Limit (60-140V) · Rotation Back-up (Optional) · (Optional) · Group Control (Optional) · M-NET connection (Optional)

Wi-Fi Interface (Optional) · COMPO · Cleaning-free pipe route · Wiring Reuse (Optional) · Drain Lift Up (Optional) · Pump Down · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump					
Indoor Unit				PKA-M35LA(L)2	PKA-M50LA(L)2	PKA-M60KA(L)2	PKA-M71KA(L)2	PKA-M100KA(L)2	PKA-M100KA(L)2
Outdoor Unit				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VDA	PUZ-ZM100YDA
Refrigerant(*1)				R32					
Power Supply	Source			Outdoor power supply					
	Outdoor(V/Phase/Hz)			VKA・VHA:230/Single/50				VDA:230/Single/50, YDA/400/Three/50	
Cooling	Capacity	Rated	kW	3.6	4.6	6.1	7.1	9.5	9.5
		Min-Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4
	Total Input	Rated	kW	0.857	1.239	1.560	1.863	2.436	2.436
	EER			4.20	3.71	3.91	3.81	3.90	3.90
	Design load		kW	3.6	4.6	6.1	7.1	9.5	9.5
	Annual electricity consumption (*2)		kWh/a	194	244	314	365	508	519
	SEER(*4)			6.5	6.6	6.8	6.8	6.5	6.4
		Energy efficiency class		A++	A++	A++	A++	A++	A++
Heating	Capacity	Rated	kW	4.1	5.0	7.0	8.0	11.2	11.2
		Min-Max	kW	1.6 - 5.2	2.5 - 7.0	2.8 - 8.2	3.5 - 10.2	2.7 - 14.0	2.7 - 14.0
	Total Input	Rated	kW	1.040	1.344	1.732	2.116	3.103	3.103
	COP			3.94	3.72	4.04	3.78	3.61	3.61
	Design load		kW	2.4	3.3	4.4	4.7	7.8	7.8
	Declared Capacity	at reference design temperature	kW	2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)
		at bivalent temperature	kW	2.4 (-10°C)	3.3 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)
		at operation limit temperature	kW	2.2 (-11°C)	3.2 (-11°C)	2.8 (-20°C)	3.4 (-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	829	1074	1464	1530	2480	2481
	SCOP(*4)			4.0	4.3	4.2	4.3	4.4	4.4
		Energy efficiency class		A+	A+	A+	A+	A+	A+
Operating Current(Max)			A	13.4	13.4	19.4	19.4	27.1	8.6
Indoor Unit	Input [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
	Operating Current(Max)		A	0.35	0.35	0.43	0.43	0.57	0.57
	Dimensions	H*W*D	mm	299-898-237	299-898-237	365-1170-295	365-1170-295	365-1170-295	365-1170-295
	Weight		kg	12.6	12.6	21	21	21	21
	Air Volume (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
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	34-37-40-43	34-37-40-43	39-42-45	39-42-45	41-45-49	41-45-49
	Sound Level (PWL)		dB(A)	60	60	64	64	65	65
Outdoor Unit	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)	870-1100-460(+45)	870-1100-460(+45)
	Weight		kg	46	46	67	67	107	114
	Air Volume	Cooling	m³/min	45	45	55	55	80	80
		Heating	m³/min	45	45	55	55	58	58
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	44	44
		Heating	dB(A)	46	46	49	49	48	48
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	63	63
	Operating Current(Max)		A	13	13	19	19	26.5	8
	Breaker Size		A	16	16	25	25	32	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
	Max.Length	Out-In	m	50	50	55	55	100	100
	Max.Height	Out-In	m	30	30	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling(*3)	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-20 ~ 46	-20 ~ 46
		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ 21	-20 ~ 21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C. *4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.
*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PKA-M SERIES
STANDARD INVERTER

Demand Control (Optional) · Pure White · AUTO VANE · Check! (Optional) · SWING · AUTO · ACO · Auto Restart · Low Temp Cooling · Silent · Ampere Limit (60-140V) · Rotation Back-up (Optional) · (Optional) · Group Control (Optional) · M-NET connection (Optional)

Wi-Fi Interface (Optional) · COMPO · Cleaning-free pipe route · Wiring Reuse (Optional) · Drain Lift Up (Optional) · Pump Down · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump	
Indoor Unit				PKA-M100KA(L)2	
Outdoor Unit				PUZ-M100VKA2	PUZ-M100YKA2
Refrigerant(*1)				R32	
Power Supply	Source			Outdoor power supply	
	Outdoor(V/Phase/Hz)			VKA・VHA:230/Single/50, YKA:400/Three/50	
Cooling	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
	EER			3.23	3.23
	Design load		kW	9.5	9.5
	Annual electricity consumption (*2)		kWh/a	573	573
	SEER(*4)			5.8	5.8
		Energy efficiency class		A+	A+
Heating	Capacity	Rated	kW	11.2	11.2
		Min-Max	kW	2.8 - 12.5	2.8 - 12.5
	Total Input	Rated	kW	3.284	3.284
	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)
	Back up heating capacity		kW	2.0	2.0
	Annual electricity consumption (*2)		kWh/a	2780	2780
	SCOP(*4)			4.0	4.0
		Energy efficiency class		A+	A+
Operating Current(Max)			A	20.6	12.1
Indoor Unit	Input [cooling / Heating]	Rated	kW	0.08 / 0.07	0.08 / 0.07
	Operating Current(Max)		A	0.57	0.57
	Dimensions	H*W*D	mm	365-1170-295	365-1170-295
	Weight		kg	21	21
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	20-23-26	20-23-26
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	41-45-49	41-45-49
	Sound Level (PWL)		dB(A)	65	65
Outdoor Unit	Dimensions	H*W*D	mm	981-1050-330 (+40)	981-1050-330(+40)
	Weight		kg	76	78
	Air Volume	Cooling	m³/min	79	79
		Heating	m³/min	79	79
	Sound Level (SPL)	Cooling	dB(A)	51	51
		Heating	dB(A)	54	54
	Sound Level (PWL)	Cooling	dB(A)	70	70
	Operating Current(Max)		A	20.0	11.5
	Breaker Size		A	32	16
Ext.Piping	Diameter(*5)	Liquid/Gas	mm	9.52 / 15.88	9.52 / 15.88
	Max.Length	Out-In	m	55	55
	Max.Height	Out-In	m	30	30
Guaranteed Operating Range (Outdoor)		Cooling(*3)	°C	-15 ~ +46	-15 ~ +46
		Heating	°C	-15 ~ +21	-15 ~ +21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012. *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PCA–KA SERIES

R32
R410A

PCA-M35/50/60/71/100/125/140KA2

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

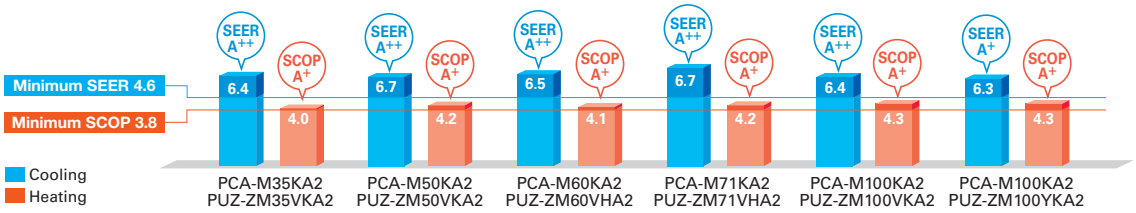
Stylish Indoor Unit Design

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

PCA-KA

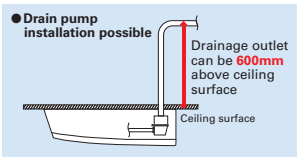
ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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



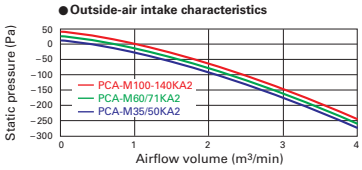
Optional Drain Pump for Full-capacity Models

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



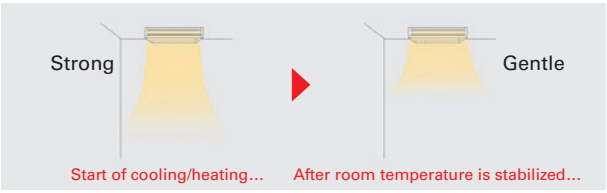
Outside-air Intake

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



Equipped with Automatic Air-speed Adjustment

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



Equipped with High- /Low-ceiling Modes

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

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

SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A

PCA-M35/50/60/71/100/125/140KA2

Outdoor Unit

R32

For Single

PUZ-ZM35/50

PUZ-ZM60/71

PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple/Quadruple)

PUZ-ZM71

PUZ-ZM100/125/140/200/250

Remote Controller

Optional

Optional

Optional

Optional

Optional*

* PAR-SA9CA is also required.

PCA-M Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)		35x1	50x1	60x1	71x1	100x1	125x1	140x1	–	–	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	–	–	–	–	–	–	–	–	–	MSDD-50TR2-E				MSDD-50WR2-E		MSDT-111R3-E			MSDF-1111R2-E	

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R32
R410A

PCA-M35/50/60/71/100/125/140KA2

Outdoor Unit

R32

For Single

SUZ-M35

SUZ-M50

SUZ-M60/71

PUZ-M100/125/140

R32

For Multi
(Twin/Triple/Quadruple)

PUZ-M100/125/140

PUZ-M200/250

Remote Controller

Optional

Optional

Optional

Optional

Optional*

* PAR-SA9CA is also required.

PCA-M Indoor Unit Combinations

Indoor unit combinations shown below are possible.

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

PCA-M KA SERIES
POWER INVERTER

Type				Inverter Heat Pump									
Indoor Unit				PCA-M35KA2	PCA-M50KA2	PCA-M60KA2	PCA-M71KA2	PCA-M100KA2	PCA-M100KA2	PCA-M125KA2	PCA-M125KA2	PCA-M140KA2	PCA-M140KA2
Outdoor Unit				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2	PUZ-ZM125VKA2	PUZ-ZM125YKA2	PUZ-ZM140VKA2	PUZ-ZM140YKA2
Refrigerant[*1]				R32									
Power Supply	Source			Outdoor power supply									
	Outdoor(V/Phase/Hz)			VKA・VHA:230/Single/50, YKA:400/Three/50									
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min-Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	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 consumption[*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
	COP			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		kW	0.0	0.0	0.0	0.0	0.0	0.0	–	–	–	–
	Annual electricity consumption[*2]		kWh/a	838	1266	1501	1567	2536	2537	–	–	–	–
	SCOP[*4]			4.0	4.2	4.1	4.2	4.3	4.3	–	–	–	–
		Energy efficiency class		A+	A+	A+	A+	A+	A+	–	–	–	–
Operating Current(Max)			A	13.3	13.4	19.4	19.4	20.7	8.7	27.3	9.8	30.9	12.7
Indoor Unit	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
	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	230-960-680		230-1280-680				230-1600-680			
	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	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45	41-43-45-48	41-43-45-48
	Sound Level (PWL)		dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor Unit	Dimensions	H*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(+40)
	Weight		kg	46	46	67	67	105	111	105	114	105	118
	Air Volume	Cooling	m³/min	45	45	55	55	110	110	120	120	120	120
		Heating	m³/min	45	45	55	55	110	110	120	120	120	120
	Sound Level (SPL)	Cooling	dB(A)	44	44	47	47	49	49	50	50	50	50
		Heating	dB(A)	46	46	49	49	51	51	52	52	52	52
	Sound Level (PWL)	Cooling	dB(A)	65	65	67	67	69	69	70	70	70	70
	Operating Current(Max)		A	13	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	9.52 / 15.88
	Max.Length	Out-In	m	50	50	55	55	100	100	100	100	100	100
	Max.Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling[*3]	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ +21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C. *4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.
*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

PCA-M KA SERIES
STANDARD INVERTER

Type				Inverter Heat Pump									
Indoor Unit				PCA-M35KA2	PCA-M50KA2	PCA-M60KA2	PCA-M71KA2	PCA-M100KA2	PCA-M100KA2	PCA-M125KA2	PCA-M125KA2	PCA-M140KA2	PCA-M140KA2
Outdoor Unit				SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA2	PUZ-M100YKA2	PUZ-M125VKA2	PUZ-M125YKA2	PUZ-M140VKA2	PUZ-M140YKA2
Refrigerant[*1]				R32									
Power Supply	Source			Outdoor power supply									
	Outdoor(V/Phase/Hz)			VA・VKA:230/Single/50, YKA:400/Three/50									
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
		Min-Max	kW	0.8 - 3.9	1.5 - 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 consumption[*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]		kWh/a	910	1458	1558	1974	2729	2729	–	–	–	–
	SCOP[*4]			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 Unit	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
	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	230-960-680		230-1280-680				230-1600-680			
	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	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43	37-39-41-43	39-41-43-45	39-41-43-45	41-43-45-48	41-43-45-48
	Sound Level (PWL)		dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor Unit	Dimensions	H*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)
	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	10	20	20	20	32	16	32	16	40	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	9.52 / 15.88
	Max.Length	Out-In	m	20	30	30	30	55	55	65	65	65	65
	Max.Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling[*3]	°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

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO_2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
*2 Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.
*3 Optional air protection guide is required where ambient temperature is lower than –5°C.
*4 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012. *5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

R32
R410A

PCA–HA SERIES

PCA-M71HA2

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

Tough on Oily Smoke

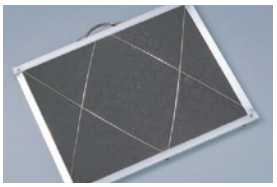
A durable stainless steel casing that is resistant to oil and grease is provided to protect the surface of the body. Grimy dirt and stains are removed easily, enabling the unit to be kept clean at all times.

High-performance Oil Mist Filter

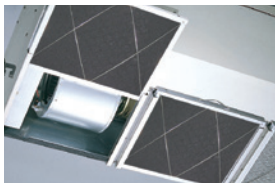
A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable, thereby enabling trouble-free cleaning and maintenance.

Oil Mist Filter Cleaning

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



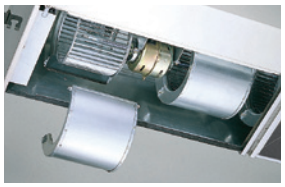
Oil mist filter



Pull the handle to easily slide the filter out

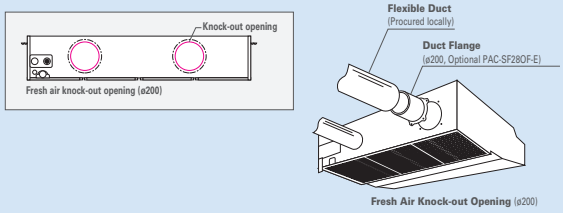
Easy Maintenance – Even for Cleaning the Fan

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



Fresh Outside-air Intake (Option)

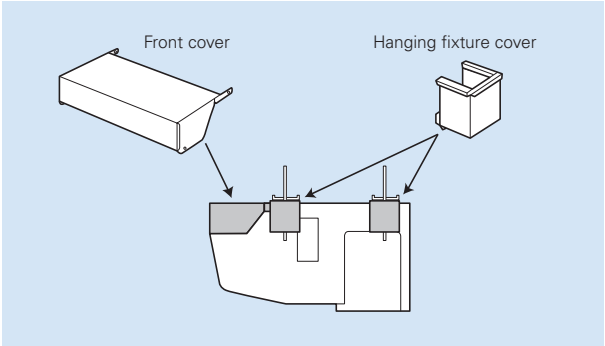
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.



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

Cosmetic Front and Hanging Fixture Covers (Option)

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



SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A

PCA-M71HA2

Outdoor Unit

R32

For Single

PUZ-ZM71

R32

For Multi
(Twin/Triple)

PUZ-ZM140/250

Remote Controller

Optional

Optional

Optional

Optional*

* PAR-SA9CA is also required.

PCA-M HA Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)		–	–	–	71x1	–	–	–	–	–	–	–	–	71x2	–	–	–	–	71x3	–	–
	Distribution Pipe	–	–	–	–	–	–	–	–	–	–	–	–	MSDD-50TR2-E	–	–	–	–	MSDT-111R3-E	–	–

SERIES SELECTION

Power Inverter Series

Indoor Unit

R32
R410A

PCA-M71HA2

Outdoor Unit

For Single

PUHZ-ZRP71

For Multi
(Twin/Triple)

PUHZ-ZRP140/250

Remote Controller

Optional

Optional

Optional

Optional*

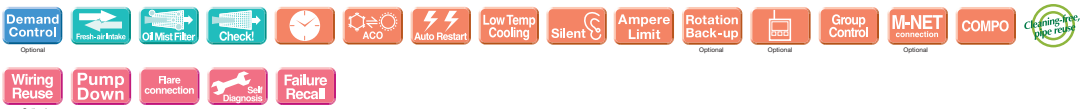
* PAR-SA9CA is also required.

PCA-M HA Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUHZ-ZRP)		–	–	–	71x1	–	–	–	–	–	–	–	–	71x2	–	–	–	–	71x3	–	–
	Distribution Pipe	–	–	–	–	–	–	–	–	–	–	–	–	MSDD-50TR-E	–	–	–	–	MSDT111R-E	–	–

PCA-M HA SERIES
POWER INVERTER



Type				Inverter Heat Pump
Indoor Unit				PCA-M71HA2
Outdoor Unit				PUZ-ZM71VHA2
Refrigerant(*1)				R32
Power Supply	**Source**			Outdoor power supply
	Outdoor(V/Phase/Hz)			230/Single/50
Cooling	**Capacity**	Rated	kW	7.1
		Min-Max	kW	3.3 - 8.1
	Total Input	Rated	kW	2.028
	EER			3.50
	Design load		kW	7.1
	Annual electricity consumption(*2)		kWh/a	443
	SEER(*4)			5.6
		Energy efficiency class		A+
Heating	**Capacity**	Rated	kW	7.6
		Min-Max	kW	3.5 - 10.2
	Total Input	Rated	kW	2.171
	COP			3.50
	Design load		kW	4.7
	Declared Capacity	at reference design temperature	kW	4.7 (-10°C)
		at bivalent temperature	kW	4.7 (-10°C)
		at operation limit temperature	kW	3.4 (-20°C)
	Back up heating capacity		kW	0.0
	Annual electricity consumption (*2)		kWh/a	1684
	SCOP(*4)			3.9
		Energy efficiency class		A
Operating Current(Max)			A	19.4
Indoor Unit	**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)		m^3/min	16-18
	Sound Level (Lo-Mi2-Mi1-Hi) (SPL)		dB(A)	37-39
	Sound Level (PWL)		dB(A)	57
Outdoor Unit	**Dimensions**	H*W*D	mm	943-950-330(+25)
	Weight		kg	67
	Air Volume	Cooling	m^3/min	55
		Heating	m^3/min	55
	Sound Level (SPL)	Cooling	dB(A)	47
		Heating	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
	Max.Length	Out-In	m	55
	Max.Height	Out-In	m	30
Guaranteed Operating Range (Outdoor)		Cooling(*3)	°C	-15 ~ +46
		Heating	°C	-20 ~ +21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2, 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

PSA-M71/100/125/140KA

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

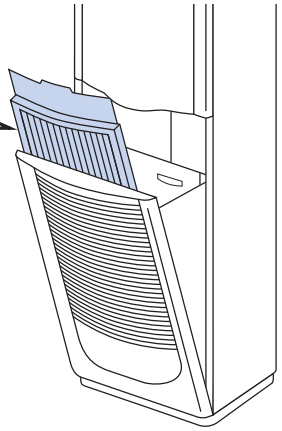
With a width of only 600mm, this slim unit can fit neatly into narrow spaces.

Built-in MA smart remote controller

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

Equipped with a long-life filter as standard

The adoption of a grille that can be opened allows the filter to be easily removed.



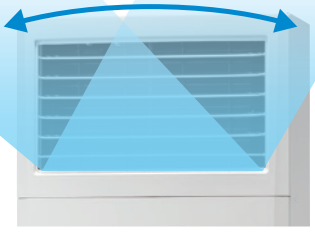
A wide airflow range with horizontal swinging

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

Automatic swinging in the horizontal direction

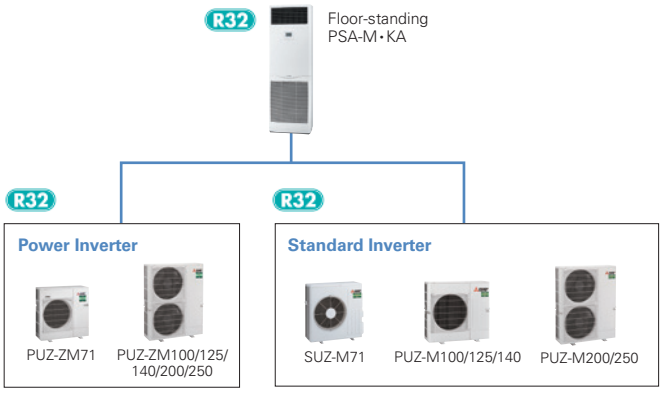
The horizontal-swinging louvers provide wide coverage for improved comfort.

Airflow can also be adjusted manually in the vertical direction.



Floor-standing Line-up

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

Indoor Unit

R32
R410A

PSA-M71/100/125/140KA

Outdoor Unit

R32

For Single

PUZ-ZM71

PUZ-ZM100/125/140

R32

For Multi
(Twin/Triple)

PUZ-ZM140/200/250

Remote Controller

Built-in

Optional*

* PAR-SA9CA-E is also required.

PSA-M Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)		–	–	–	71x1	100x1	125x1	140x1	–	–	–	–	–	71x2	100x2	125x2	–	–	71x3	–	–
	Distribution Pipe	–	–	–	–	–	–	–	–	–	–	–	–	MSDD -50TR2-E	MSDD-50WR2-E		–	–	MSDT -111R3-E	–	–

SERIES SELECTION

Standard Inverter Series

Indoor Unit

R32
R410A

PSA-M71/100/125/140KA

Outdoor Unit

R32

For Single

SUZ-M71

PUZ-M100/125/140

R32

For Multi
(Twin/Triple)

PUZ-M140

PUZ-M200/250

Remote Controller

Built-in

Optional*

* PAR-SA9CA-E is also required.

PSA-M Indoor Unit Combinations

Indoor unit combinations shown below are possible.

Indoor Unit Combination		Outdoor Unit Capacity																			
		For Single									For Twin						For Triple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standard Inverter (PUZ-M)		–	–	–	71x1	100x1	125x1	140x1	–	–	–	–	–	71x2	100x2	125x2	–	–	71x3	–	–
	Distribution Pipe	–	–	–	–	–	–	–	–	–	–	–	–	MSDD -50TR2-E	MSDD-50WR2-E		–	–	MSDT -111R3-E	–	–

PSA-M SERIES
POWER INVERTER

Demand Control (Optional) · Pure White · Long Life · Check! · SWING · ACO · Auto Restart · Low Temp Cooling · Silent · Ampere Limit (71-140V) · Group Control (Optional) · M-NET connection (Optional) · Wi-Fi Interface (Optional) · COMPO · Cleaning-free pipe route · Wiring Reuse (Optional) · Pump Down · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump						
Indoor Unit				PSA-M71KA	PSA-M100KA	PSA-M100KA	PSA-M125KA	PSA-M125KA	PSA-M140KA	PSA-M140KA
Outdoor Unit				PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2	PUZ-ZM125VKA2	PUZ-ZM125YKA2	PUZ-ZM140VKA2	PUZ-ZM140YKA2
Refrigerant[*1]				R32						
Power Supply	Source			Outdoor power supply						
	Outdoor(V/Phase/Hz)			VKA・VHA:230/Single/50, YKA:400/Three/50						
Cooling	Capacity	Rated	kW	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min-Max	kW	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	1.888	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[*2]		kWh/a	388	581	592	–	–	–	–
	SEER[*4]			6.4	5.7	5.6	–	–	–	–
		Energy efficiency class		A++	A+	A+	–	–	–	–
Heating	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	0.0	0.0	0.0	–	–	–	–
	Annual electricity consumption[*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
Indoor Unit	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
	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)		m³/min	20-22-24	25-28-30	25-28-30	25-28-31	25-28-31	25-28-31	25-28-31
	Sound Level (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 Unit	Dimensions	H*W*D	mm	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(+40)
	Weight		kg	67	105	111	105	114	105	118
	Air Volume	Cooling	m³/min	55	110	110	120	120	120	120
		Heating	m³/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
Guaranteed Operating Range (Outdoor)		Cooling[*3]	°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 CO_2, 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.

PSA-M SERIES
STANDARD INVERTER

Demand Control (Optional) · Pure White · Long Life · Check! · SWING · ACO · Auto Restart · Low Temp Cooling · Silent · Group Control (Optional) · M-NET connection (Optional) · Wi-Fi Interface (Optional) · COMPO · Cleaning-free pipe route · Wiring Reuse (Optional) · Pump Down · Flare connection · Self Diagnosis · Failure Recall

Type				Inverter Heat Pump						
Indoor Unit				PSA-M71KA	PSA-M100KA	PSA-M100KA	PSA-M125KA	PSA-M125KA	PSA-M140KA	PSA-M140KA
Outdoor Unit				SUZ-M71VA	PUZ-M100VKA2	PUZ-M100YKA2	PUZ-M125VKA2	PUZ-M125YKA2	PUZ-M140VKA2	PUZ-M140YKA2
Refrigerant[*1]				R32						
Power Supply	Source			Outdoor power supply						
	Outdoor(V/Phase/Hz)			VA, VKA:230/Single/50, YKA:400/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 consumption[*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
		Min-Max	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
	COP			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	at reference design temperature	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]		kWh/a	2003	2745	2745	–	–	–	–
	SCOP[*4]			4.0	4.0	4.0	–	–	–	–
		Energy efficiency class		A+	A+	A+	–	–	–	–
Operating Current(Max)			A	15.2	20.7	12.2	27.2	12.2	30.7	12.2
Indoor Unit	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
	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)		m³/min	20-22-24	25-28-30	25-28-30	25-28-31	25-28-31	25-28-31	25-28-31
	Sound Level (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 Unit	Dimensions	H*W*D	mm	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)
	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.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	30	55	55	65	65	65	65
	Max.Height	Out-In	m	30	30	30	30	30	30	30
Guaranteed Operating Range (Outdoor)		Cooling[*3]	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21

*1 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO_2, 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.

PLA-SM SERIES SERIES SELECTION

Indoor Unit

PLA-SM71/100/125/140EA

Outdoor Unit

SUZ-SM71VA

PUZ-SM100/125/140VKA2
PUZ-SM100/125/140YKA2

Optional

PLP-6EAJ - Panel only
PLP-6EALM - Panel with signal receiver and wireless remote controller

PAR-41MAA(B)
DELUXE

PAC-YT52CRA

PAR-SL100A*

*Enclosed with PLP-6EALM

PLA-SM SERIES

Type				Inverter Heat Pump							
Indoor Unit				PLA-SM71EA	PLA-SM100EA		PLA-SM125EA		PLA-SM140EA	
Outdoor Unit				SUZ-SM71VA	PUZ-SM100VKA	PUZ-SM100YKA	PUZ-SM125VKA	PUZ-SM125YKA	PUZ-SM140VKA	PUZ-SM140YKA
Refrigerant				R32(*1)						
Power Supply	Source			Outdoor power supply						
	Outdoor (V / Phase / Hz)			VA · VKA:230 / Single / 50, YKA:400 / Three / 50						
Cooling	Capacity	Rated	kW	7,1	9,5	9,5	12,1		13,4	
		Min-Max	kW	2,2-8,1	4,0-10,6	4,0-10,6	5,8-13,0		5,8-14,1	
	Total Input	Rated	kW	1,97	2,79	2,79	4,17		5,13	
	EER			3,6	3,4	3,4	2,9		2,61	
	EEL Rank			-	-	-	-		-	
	Design load		kW	7,1	9,5	9,5	12,1		13,4	
	Annual electricity consumption (*2)		kWh/a	410	554	554	-		-	
	SEER			6	6	6	-		-	
	Energy efficiency class			A+	A+	A+	-		-	
Heating (Average Season)	Capacity	Rated	kW	8	11,2	11,2	13,5		15	
		Min-Max	kW	2,0-10,2	2,8-12,5	2,8-12,5	4,1-15,0		4,2-15,8	
	Total Input	Rated	kW	2,28	3,1	3,1	3,73		4,54	
	COP			3,5	3,61	3,61	3,61		3,3	
	EEL Rank			-	-	-	-		-	
	Design load		kW	5,8	8	8	8,5		9,4	
	Declared Capacity	at reference design temperature	kW	5,2 (-10°C)	6,0 (-10°C)	6,0 (-10°C)	8,5 (-10°C)		9,4 (-10°C)	
		at bivalent temperature	kW	5,2 (-7°C)	7,0 (-7°C)	7,0 (-7°C)	8,5 (-10°C)		9,4 (-10°C)	
		at operation limit temperature	kW	5,2 (-10°C)	4,5 (-15°C)	4,5 (-15°C)	6,0 (-15°C)		7,0 (-15°C)	
	Back up heating capacity		kW	0,6	2	2	0		0	
	Annual electricity consumption (*2)		kWh/a	2066	2482	2482	-		-	
	SCOP			3,9	4,5	4,5	-		-	
	Energy efficiency class			A	A+	A+	-		-	
Operating Current (Max)			A	15,1	20,5	12	27,2	12,2	30,7	12,2
Indoor Unit	Input (cooling/heating)	Rated	kW	0,04	0,07	0,07	0,1	0,1	0,1	0,1
	Operating Current (Max)		A	0,27	0,46	0,46	0,66	0,66	0,66	0,66
	Dimensions <Panel>	HxWxD	mm	258x840x840<40x950x950>	298x840x840<40x950x950>					
	Weight <Panel>		kg	21<5>	24<5>		26<5>			
	Air Volume (Lo-Mid-Hi)		m³/min	14-17-19-21	19-23-26-29		21-25-28-31		24-26-29-32	
	Sound Level (Lo-Mid-Hi) (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	61		65		65	
Outdoor Unit	Dimensions	HxWxD	mm	880x840x330	981x1050x330 (+40)					
	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. Piping	Diameter	Liquid/Gas	mm	9,52 / 15,88						
	Max. Length	Out-In	m	30			40			
	Max. Height	Out-In	m	30						
Guaranteed Operating Range (Outdoor)		Cooling	℃	-15 ~ +46						
		Heating	℃	-10 ~ +24	-15 ~ +21					
Refrigerant/GWP				R32/675(*4)						
Pre-Charged quantity		Weight	kg	1,45	3,1	3,1	3,6	3,6	3,6	3,6
		CO_2 equivalent	t	0,98	2,09	2,09	2,43	2,43	2,43	2,43
Max added quantity		Weight	kg	2,37	4,1	4,1	5	5	5	5
		CO_2 equivalent	t	1,6	2,77	2,77	3,38	3,38	3,38	3,38

(*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 te 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 circuit yourself or disassemble the produci yourself and always ask a professional.
(*2) Energy consumption based on standard test results.Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) Optional air protection guide is required where ambient temperature is lower than -5°C.
(*4) This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition,

PEAD-SM SERIES SERIES SELECTION

Indoor Unit

PEAD-SM71/100/125/140JAL(2)

Outdoor Unit

SUZ-SM71VA

PUZ-SM100/125/140VKA
PUZ-SM100/125/140YKA

Remote Controller (Optional)

PAR-41MAA(B)
Optional

PAC-YT52CRA
Optional

PAR-FL32MA
Optional

PEAD-SM SERIES

Type				Inverter Heat Pump						
Indoor Unit				PEAD-SM71JA (L)	PEAD-SM100JA (L)	PEAD-SM100JA (L)	PEAD-SM125JA (L)	PEAD-SM125JA (L)	PEAD-SM140JA (L)	PEAD-SM140JA (L)
Outdoor Unit				SUZ-SM71VA	PUZ-SM100VKA	PUZ-SM100YKA	PUZ-SM125VKA	PUZ-SM125YKA	PUZ-SM140VKA	PUZ-SM140YKA
Refrigerant				R32(*1)						
Power Supply	Source			Outdoor power supply						
	Outdoor (V / Phase / Hz)			VA · VKA:230 / Single / 50, YKA:400 / Three / 50						
Cooling	Capacity	Rated	kW	7,1	9,5	9,5	12,1		13,4	
		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	
	EER			3,41	3,21	3,21	2,9		2,7	
	EEL Rank			-	-	-	-		-	
	Design load		kW	7,1	9,5	9,5	12,1		13,4	
	Annual electricity consumption (*2)		kWh/a	451	626	626	-		-	
	SEER			5,5	5,3	5,3	-		-	
	Energy efficiency class			A	A	A	-		-	
Heating (Average Season)	Capacity	Rated	kW	8	11,2	11,2	13,5		15	
		Min-Max	kW	2,0-10,2	2,8-12,5	2,8-12,5	4,1-15,0		4,2-15,8	
	Total Input	Rated	kW	2,21	3,02	3,02	3,85		4,28	
	COP			3,61	3,7	3,7	3,5		3,5	
	EEL Rank			-	-	-	-		-	
	Design load		kW	5,8	8	8	8,5		9,4	
	Declared Capacity	at reference design temperature	kW	5,2 (-6°C)	6,0 (-10°C)	6,0 (-10°C)	8,5 (-10°C)		9,4 (-10°C)	
		at bivalent temperature	kW	5,2 (-7°C)	7,0 (-7°C)	7,0 (-7°C)	8,5 (-10°C)		9,4 (-10°C)	
		at operation limit temperature	kW	5,2 (-10°C)	4,5 (-15°C)	4,5 (-15°C)	6,0 (-15°C)		7,0 (-15°C)	
	Back up heating capacity		kW	0,6	2	2	0		0	
	Annual electricity consumption (*2)		kWh/a	2080	2865	2865	-		-	
	SCOP			3,9	3,9	3,9	-		-	
	Energy efficiency class			A	A	A	-		-	
Operating Current (Max)			A	16,8	22,7	14,2	29,3	14,3	32,8	14,3
Indoor Unit	Input (cooling/heating)	Rated	kW	0,17 / 0,15	0,25 (0,23) / 0,23	0,25 (0,23) / 0,23	0,36 (0,34) / 0,34	0,36 (0,34) / 0,34	0,39 (0,37) / 0,37	0,39 (0,37) / 0,37
	Operating Current (Max)		A	1,97	2,65	2,65	2,76	2,76	2,78	2,78
	Dimensions	HxWxD	mm	250-1100-732	250-1400-732	250-1400-732	250-1400-732	250-1400-732	250-1600-732	250-1600-732
	Weight (L:No Drain Pump)		kg	30 (29)	39 (38)	39 (38)	40 (39)	40 (39)	44 (43)	44 (43)
	Air Volume (Lo-Mid-Hi)		m^3/min	17,5-21,0-25,0	24,0-29,0-34,0	24,0-29,0-34,0	29,5-35,5-42,0	29,5-35,5-42,0	32,0-39,0-46,0	32,0-39,0-46,0
	External Static Pressure		Pa	35 / 50 / 70 / 100						
	Sound Level (Lo-Mid-Hi) (SPL)		dB(A)	26-30-34	29-34-38		33-36-40		34-38-43	
	Sound Level (PWL)		dB(A)	58	62		66		67	
Outdoor Unit	Dimensions	HxWxD	mm	880x840x330	981x1050x330 (+40)					
	Weight		kg	55	76	78	84	85	84	85
	Air Volume	Cooling	m^3/min	50,1	79	79	86	86	86	86
		Heating	m^3/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. Piping	Diameter	Liquid/Gas	mm	9,52 / 15,88						
	Max. Length	Out-In	m	30			40			
	Max. Height	Out-In	m	30						
Guaranteed Operating Range (Outdoor)		Cooling(*3)	℃	-15 ~ +46						
		Heating	℃	-10 ~ +24	-15 ~ +21					
Refrigerant/GWP				R32/675(*4)						
Pre-Charged quantity		Weight	kg	1,45	3,10	3,10	3,60	3,60	3,60	3,60
		CO_2 equivalent	t	0,98	2,09	2,09	2,43	2,43	2,43	2,43
Max added quantity		Weight	kg	2,37	4,10	4,10	5,00	5,00	5,00	5,00
		CO_2 equivalent	t	1,60	2,77	2,77	3,38	3,38	3,38	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 warrning would be 1975 times higher than 1 kg of CO 2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the produci yourself and always ask a professional.
(*2) Energy consumption based on standard test results.Actual energy consumption will depend on how the appliance is used and where it is located.
(*3) Optional air protection guide is required where ambient temperature is lower than -5°C.
(*4) This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition,

MULTI SPLIT SERIES

SELECTION

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

R32 INDOOR UNITS

Wall-mounted


MSZ-LN (18•25•35•50)


MSZ-EF

MSZ-AY25-50


MSZ-AY15-20


MSZ-AP60VG


MSZ-BT

Cassette


SLZ


MLZ-KP


MLZ-KY

Floor-standing

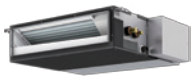

MFZ-KT


SFZ

Ceiling-suspended


PCA

Ceiling-concealed


SEZ


PEAD

R32 OUTDOOR UNITS

2-port
up to 2 indoor units


MXZ-2F33VF4
MXZ-2F42VF4
MXZ-2F53VF(H)4

3-port
up to 3 indoor units


MXZ-3F54VF4
MXZ-3F68VF4

4-port
up to 4 indoor units


MXZ-4F72VF4
MXZ-4F80VF4


MXZ-4F83VF2

5-port
up to 5 indoor units


MXZ-5F102VF2

6-port
up to 6 indoor units


MXZ-6F120VF2

Hyper Heating


MXZ-2F53VFHZ2


MXZ-4F83VFHZ2

CHECK SYSTEM COMPATIBILITY

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

Check Indoor Units

Refer to the "Indoor Unit Compatibility Table" to check if the indoor units selected can be used with the outdoor unit selected. (Indoor units not listed in the table cannot be used.)

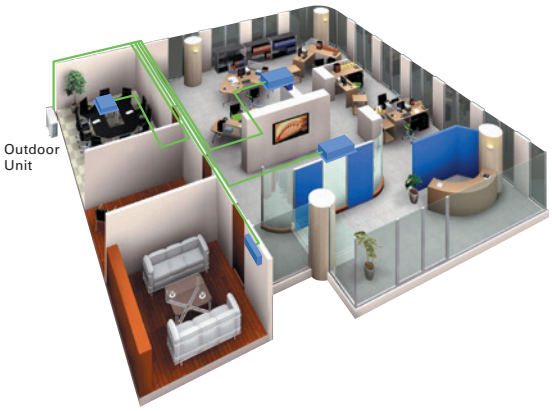
Check Indoor Unit Capacity Combination

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

If the desired combination cannot be found, please change either the indoor or outdoor unit to match one of the combinations shown in the tables.

MXZ SERIES

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



R32

2-port

MXZ-2F33VF4
MXZ-2F42VF4
MXZ-2F53VF(H)4

R32

3-port 4-port

MXZ-3F54VF4
MXZ-3F68VF4
MXZ-4F72VF4
MXZ-4F80VF4

R32

4-port 5-port

MXZ-4F83VF2
MXZ-5F102VF2

R32

6-port

MXZ-6F120VF2

EXAMPLE SYSTEM

MXZ-4F72VF system


MSZ-LN


MSZ-AY


MLZ-KP


SLZ


MXZ-4F72VF4

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

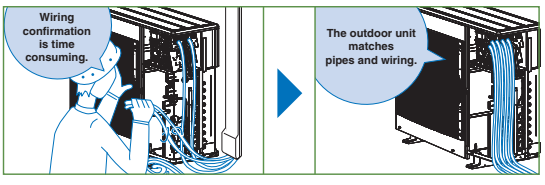
The MXZ Series for R32 offers a ten-system line-up to choose from, ranging between 3.3 and 12.0kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

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
INVERTER MULTI

Type (Inverter Multi - Split Heat Pump)				Up to 2 Indoor Units				Up to 3 Indoor Units		Up to 4 Indoor Units			Up to 5 Indoor Units
Indoor Unit				Please refer to*3									
Outdoor Unit				MXZ-2F33VF4	MXZ-2F42VF4	MXZ-2F53VF4	MXZ-2F53VFH4	MXZ-3F54VF4	MXZ-3F68VF4	MXZ-4F72VF4	MXZ-4F80VF4	MXZ-4F83VF2	MXZ-5F102VF2
Refrigerant				R32									
Power Supply	Source			Outdoor power supply									
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50Hz									
Cooling	Capacity	Rated	kW	3.3	4.2	5.3	5.3	5.4	6.8	7.2	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 Electricity 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 Capacity	at reference design temperature	kW	2.2	2.7	2.7	2.7	4.2	5.7	5.6	5.6	5.8	5.9
		at bivalent temperature	kW	2.4	2.9	2.9	2.9	4.8	6.4	6.2	6.2	6.2	6.4
		at operation limit temperature	kW	1.6	2.3	2.3	2.1	3.2	4.6	4.8	4.8	4.9	4.9
	Back Up Heating Capacity		kW	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. Operating Current (Indoor+Outdoor)			A	10.0	12.2	12.2	12.2	18.0	18.0	18.0	18.0	21.4	21.4
Outdoor Unit	Dimensions	H*W*D	mm	550 - 800 (+69) - 285 (+59.5)				710 - 840 - 330 (+66)				796 - 950 - 330	
	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 (SPL)	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 (PWL)	Cooling	dB(A)	60	59	61	61	60	63	63	65	61	65
	Breaker Size		A	15	15	15	15	25	25	25	25	25	25
Ext. Piping	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
		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 × 1+9.52 × 3	12.7 × 1+9.52 × 4
	Total Piping Length (max)		m	20	30	30	30	50	60	60	60	70	80
	Each Indoor Unit 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 Length		m	20	30	30	30	50	60	60	60	70	80
Guaranteed Operating Range [Outdoor]		Cooling	℃	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	℃	-15 ~ +24	-15 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24
Refrigerant/GWP				R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*4	R32/675*3	R32/675*3
Pre-Charged Quantity		Weight	kg	0.8	1.0	1.0	1.0	2.4	2.4	2.4	2.4	2.4	2.4
		CO_2 equivalent	t	0.54	0.68	0.68	0.68	1.62	1.62	1.62	1.62	1.62	1.62
Max Added Quantity		Weight	kg	0.8	1.0	1.0	1.0	2.4	2.4	2.4	2.4	2.4	2.4
		CO_2 equivalent	t	0.54	0.68	0.68	0.68	1.62	1.62	1.62	1.62	1.62	1.62

Type (Inverter Multi - Split Heat Pump)				Up to 6 Indoor Units
Indoor Unit				Please refer to*3
Outdoor Unit				MXZ-6F120VF2
Refrigerant				R32
Power Supply	Source			Outdoor power supply
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50Hz
Cooling	Capacity	Rated	kW	12.0
	Input	Rated	kW	3.60
	Design Load		kW	12.0
	Annual Electricity Consumption*1		kWh/a	612
	SEER*3			6.86
		Energy Efficiency Class*3		A++
Heating	Capacity	Rated	kW	14.0
	Input	Rated	kW	3.31
	Design Load		kW	8.1
	Declared Capacity	at reference design temperature	kW	6.9
		at bivalent temperature	kW	7.6
		at operation limit temperature	kW	5.7
	Back Up Heating Capacity		kW	1.2
	Annual Electricity Consumption*1		kWh/a	2794
	SCOP*3			4.06
		Energy Efficiency Class*3		A+
Max. Operating Current (Indoor+Outdoor)			A	29.8
Outdoor Unit	Dimensions	H*W*D	mm	1048 - 950 - 330
	Weight		kg	87
	Air Volume	Cooling	m³/min	63
		Heating	m³/min	77
	Sound Level (SPL)	Cooling	dB(A)	55
		Heating	dB(A)	57
	Sound Level (PWL)	Cooling	dB(A)	69
	Breaker Size		A	32
Ext. Piping	Port Diameter	Liquid	mm	6.35 × 6
		Gas	mm	12.7 × 1 + 9.52 × 5
	Total Piping Length (max)		m	80
	Each Indoor Unit Piping Length (max)		m	25
	Max. Height		m	15
	Chargeless Length		m	80
Guaranteed Operating Range [Outdoor]		Cooling	℃	-10 ~ +46
		Heating	℃	-15 ~ +24
Refrigerant/GWP				R32/675*4
Pre-Charged Quantity		Weight	kg	2.4
		CO_2 equivalent	t	1.62
Max Added Quantity		Weight	kg	2.4
		CO_2 equivalent	t	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.
*3 SEER/SCOP values and energy efficiency class are measured when connectedto 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

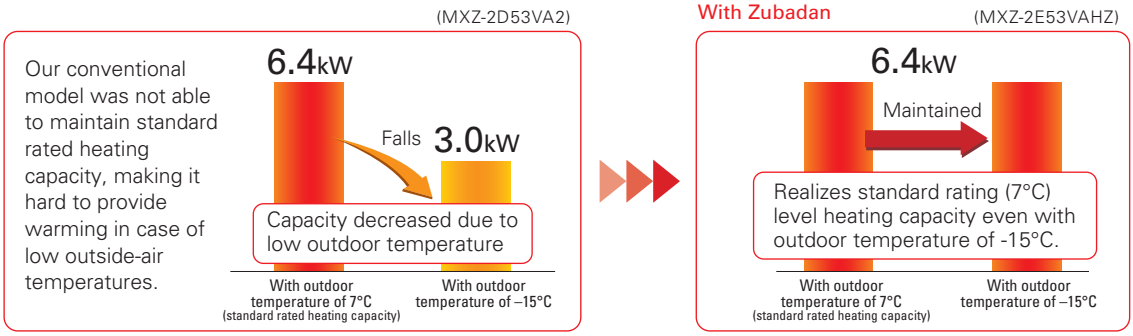
*4 This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition.

MXZ-VFHZ SERIES

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

Standard Rated Heating Capacity is Maintained Even When the Outdoor Temperature Drops to –15°c.

Maintains high capacity output even when outdoor temperature is low.



Can Operate at Outdoor 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.

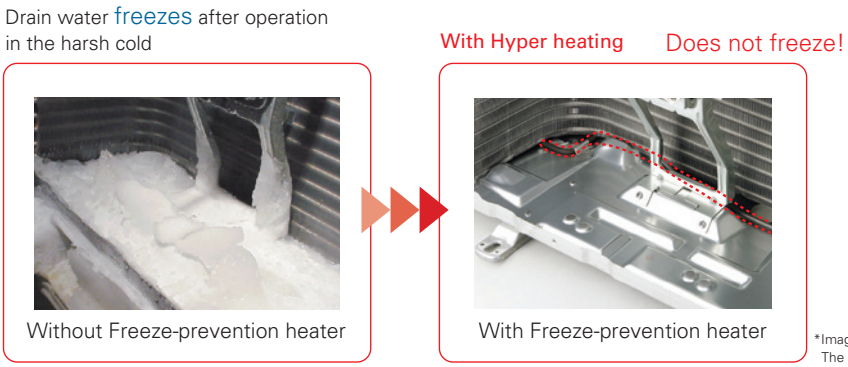
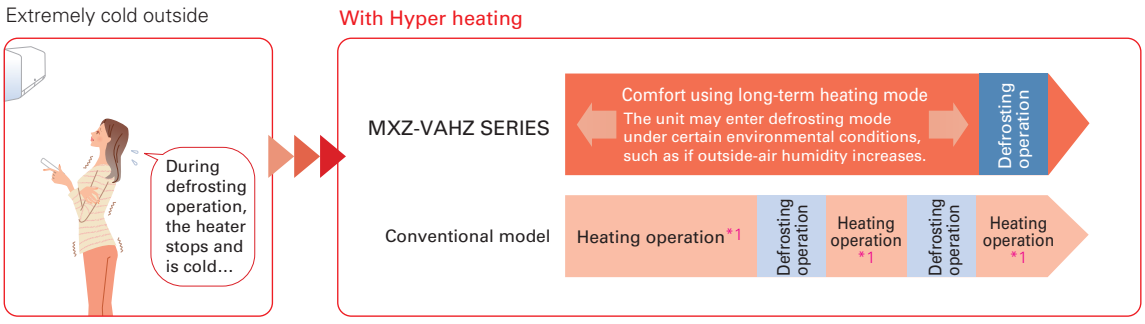


*Image is for illustration purposes.
The actual performance depends on outdoor temperature.

Continuous Heating for Long Periods

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

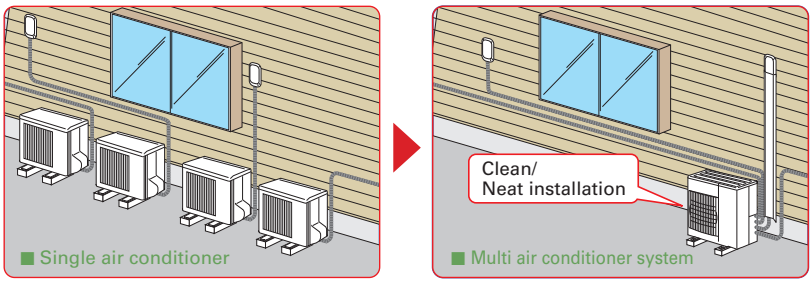


*1: Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

One Outdoor Unit Supports Multiple Indoor Units.

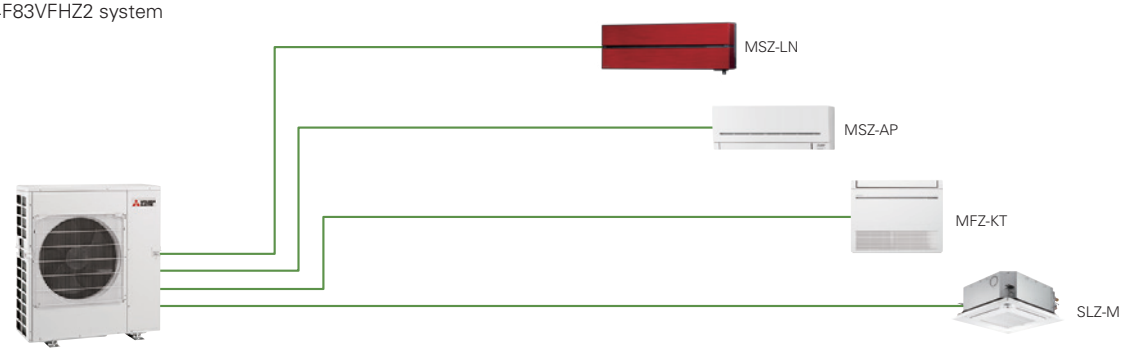
With MXZ-VFHZ, one outdoor unit can cool and heat up to six rooms. They can be installed neatly in sites with limited space such as condominium balconies.

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



EXAMPLE SYSTEM

MXZ-4F83VFHZ2 system



Freedom of Combinations in Cold Region Greatly Enhanced

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

OUTDOOR UNITS

2-room use

R32

MXZ-2F53VFHZ2

4-room use

R32

MXZ-4F83VFHZ2

INDOOR UNITS

Wall-mounted

R32 R410A

MSZ-LN

R32 R410A

MSZ-AY

R32 R410A

MSZ-EF

R32

MSZ-FT

Floor-standing

R32

MFZ-KT

Cassette

R32 R410A

SLZ

R32 R410A

MLZ-KP

Ceiling-concealed

R32 R410A

SEZ

MXZ-VFHZ SERIES

Outdoor Unit

MXZ-2F53VFHZ2

MXZ-4F83VFHZ2

Type				Inverter Heat Pump	
Indoor Unit				Please refer to*2 *3	
Outdoor Unit				MXZ-2F53VFHZ2	MXZ-4F83VFHZ2
Refrigerant				R32*4	
Power Supply	**Source**			Outdoor power supply	
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50	
Cooling	**Capacity**	Rated	kW	5.3	8.3
		Min - Max	kW	1.1 - 6.0	3.5 - 9.2
	Total Input	Rated	kW	1.29	1.90
	Design Load		kW	5.3	8.3
	Annual Electricity Consumption*1		kWh/a	274	398
	SEER*5			6.8	7.3
		Energy Efficiency Class		A++	A++
Heating (Average Season)	**Capacity**	Rated (7°C)	kW	6.4	9.0
		Rated (–7°C)	kW	6.4	9.0
		Rated (–15°C)	kW	6.4	9.0
		Min - Max	kW	1.0 - 7.0	3.5 - 11.6
	Total Input	Rated	kW	1.36	1.70
	Design Load		kW	6.4	10.1
	Declared Capacity	at reference design temperature	kW	6.9	10.6
		at bivalent temperature	kW	7.4	11.5
		at operation limit temperature	kW	4.1	5.7
	Back Up Heating Capacity		kW	0.0	0.0
	Annual Electricity Consumption*1		kWh/a	2172	3286
	SCOP*5			4.1	4.3
		Energy Efficiency Class		A+	A+
Max. Operating Current (Indoor+Outdoor)			A	15.6	28.0
Outdoor Unit	**Dimensions**	H*W*D	mm	796 × 950 × 330	1048 × 950 × 330
	Weight		kg	61	86
	Air Volume	Cooling	m^3/min	43	63
		Heating	m^3/min	41	77
	Sound Level (SPL)	Cooling	dB(A)	45	55
		Heating	dB(A)	47	57
	Sound Level (PWL)	Cooling	dB(A)	55	66
	Breaker Size		A	16	30
Ext. Piping	**Diameter**	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35× 4 / 12.7 × 1+9.52 × 3
	Total Piping Length (max)		m	30	70
	Each Indoor Unit Piping Length (max)		m	20	25
	Max. Height		m	15	15
	Chargeless Length		m	30	70
Guaranteed Operating Range [Outdoor]		Cooling	°C	–10 ~ +46	–10 ~ +46
		Heating	°C	–25 ~ +24	–25 ~ +24

*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/COP, EEL rank, SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2F53VFHZ2 MSZ-LN18VG2 + MSZ-LN35VG2
MXZ-4F83VFHZ2 MSZ-LN18VG2 + MSZ-LN18VG2 + MSZ-LN25VG2 + MSZ-LN25VG2
*3 Indoor unit compatibility table is shown on page 120.
*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 675. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO_2, 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.
*5 SEER and SCOP are based on 2009/125/EC:Energy-related Products Directive and Regulation(EU) No206/2012.

MXZ-HA SERIES

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

R32

2-port

MXZ-2HA40VF2
MXZ-2HA50VF2

R32

3-port

MXZ-3HA50VF2

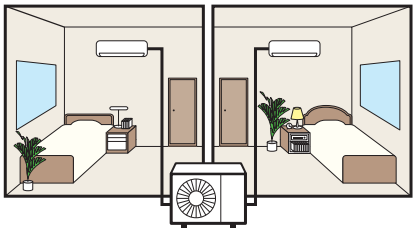
Stylish Design with Flat Panel Front

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

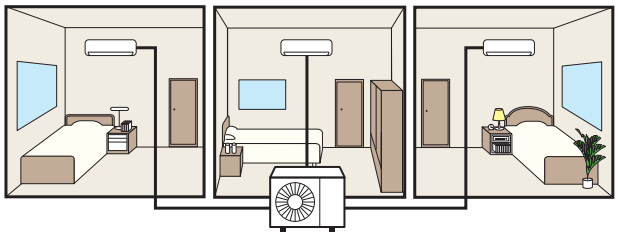
Easy to Create Various Combinations

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

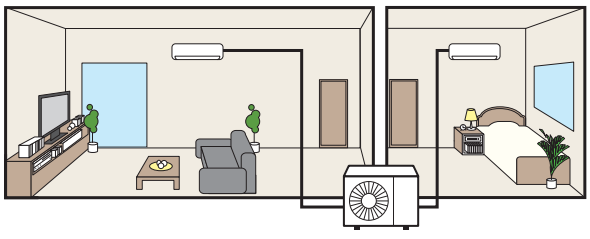
Two bedrooms



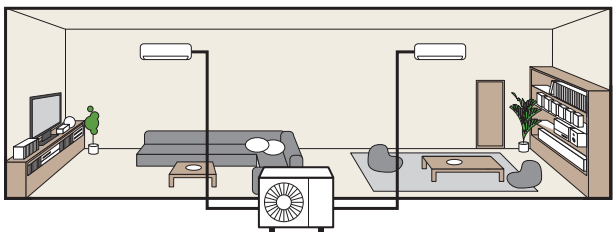
Three bedrooms



Living room and one bedroom



Wide living room



MXZ-HA SERIES
INVERTER MULTI

Type (Inverter Multi - Split Heat Pump)				Up to 2 Indoor Units		Up to 3 Indoor Units
Indoor Unit				Please refer to*3		
Outdoor Unit				MXZ-2HA40VF2	MXZ-2HA50VF2	MXZ-3HA50VF2
Refrigerant				R32		
Power Supply	Source			Outdoor power supply		
	Outdoor (V/Phase/Hz)			220 - 230 - 240V / Single / 50Hz		
Cooling	Capacity	Rated	kW	4.0	5.0	5.0
		Min-Max	kW	1.1 - 4.3	1.1 - 5.4	2.9 - 6.5
	Input	Rated	kW	1.05	1.52	1.26
	Design Load		kW	4.0	5.0	5.0
	Annual Electricity Consumption*2		kWh/a	172	225	241
	SEER*1			8.12	7.78	7.26
		Energy Efficiency Class*3		A++	A++	A++
Heating	Capacity	Rated	kW	4.3	6.0	6.0
		Min-Max	kW	1.0 - 4.7	1.0 - 6.4	2.6 - 7.5
	Input	Rated	kW	0.91	1.54	1.30
	Design Load		kW	3.2	3.2	4.0
	Declared Capacity	at reference design temperature	kW	2.4	2.4	3.0
		at bivalent temperature	kW	2.9	2.9	3.6
		at operation limit temperature	kW	2.1	2.1	2.6
	Back Up Heating Capacity		kW	0.8	0.8	1.0
	Annual Electricity Consumption*2		kWh/a	1043	1043	1394
	SCOP*3			4.30	4.30	4.02
		Energy Efficiency Class*3		A+	A+	A+
Max. Operating Current (Indoor+Outdoor)			A	12.2	12.2	18.0
Outdoor Unit	Dimensions	H*W*D	mm	550 - 800 (+69) - 285 (+59.5)		710 - 840 - 330 (+66)
	Weight		kg	37	37	57
	Air Volume	Cooling	m³/min	28.4	32.7	31.0
		Heating	m³/min	33.5	34.7	29.1
	Sound Level (SPL)	Cooling	dB(A)	44	47	46
		Heating	dB(A)	50	51	50
	Sound Level (PWL)	Cooling	dB(A)	59	64	61
	Breaker Size		A	15	15	25
Ext. Piping	Port Diameter	Liquid	mm	6.35 × 2	6.35 × 2	6.35 × 3
		Gas	mm	9.52 × 2	9.52 × 2	9.52 × 3
	Total Piping Length (max)		m	30	30	50
	Each Indoor Unit Piping Length (max)		m	20	20	25
	Max. Height		m	15(10)*2	15(10)*2	15(10)*2
	Chargeless Length		m	30	30	40
Guaranteed Operating Range [Outdoor]		Cooling	℃	–10 ~ +46		
		Heating	℃	–15 ~ +24		
Chargeless Length				R32/675*4	R32/675*4	R32/675*4
Pre-Charged Quantity		Weight	Kg	0.9	0.9	1.4
		CO_2 equivalent	t	0.61	0.61	0.95
Max Added Quantity		Weight	Kg	0.9	0.9	1.6
		CO_2 equivalent	t	0.61	0.61	1.08

*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.
*3 SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
MXZ-2HA40VF2 → MSZ-HR25VF + MSZ-HR25VF
MXZ-2HA50VF2 → MSZ-HR25VF + MSZ-HR25VF
MXZ-3HA50VF2 → MSZ-HR25VF + MSZ-HR25VF + MSZ-HR25VF
*4 This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition,

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

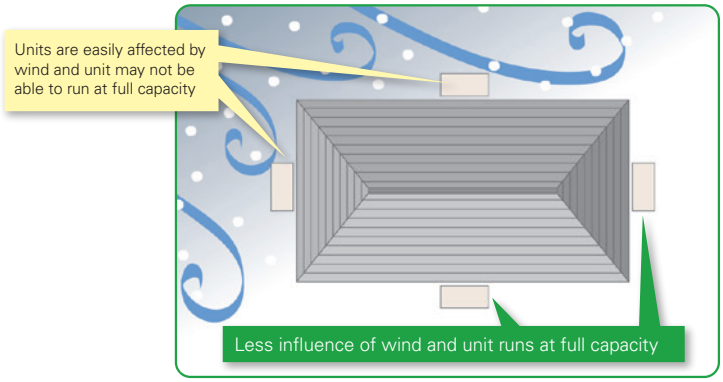
3 Important Points to Remember When Installing the Outdoor Unit

✻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.

1 Installation Location

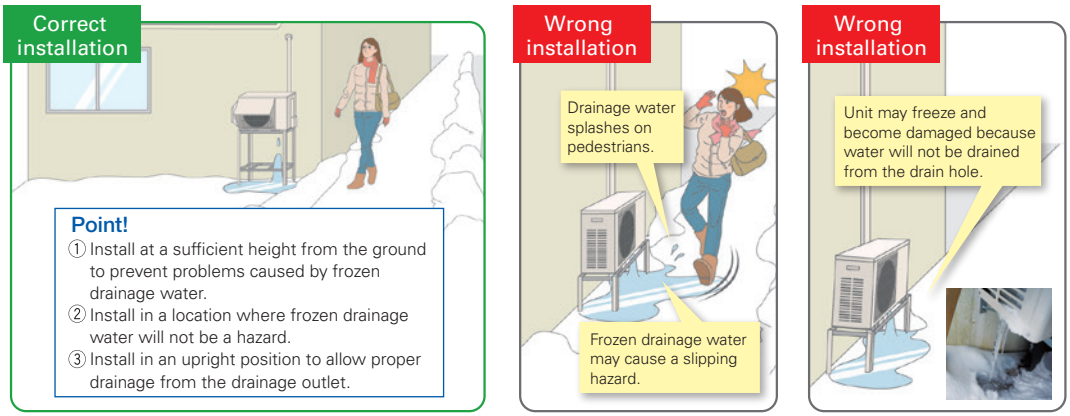
Be aware of the prevailing wind direction in winter and install the outdoor unit where it is as sheltered as possible.



2 Measures for Drainage of Water

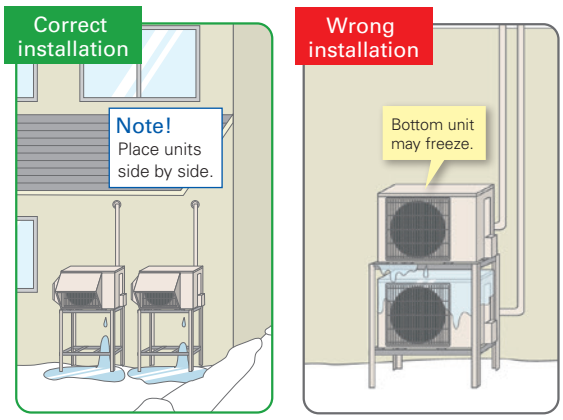
Case 1: Unit is installed close to passage (walkway)

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



Case 2: Multiple units are installed

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



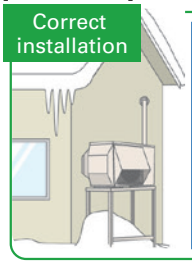
3 Measures for Snow

Unit is installed on the ground

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

[RAC / PAC / MXZ]

Correct installation

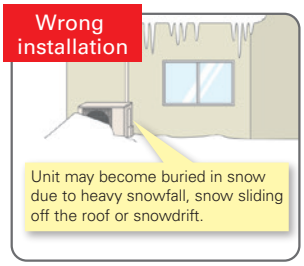


Point!

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

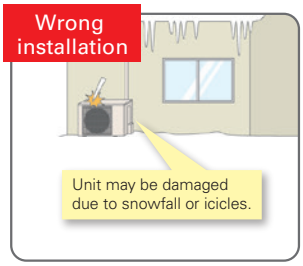
*1 Install at a height above the highest snowfall depth.
*2 Even for correct installations, dripping drainage water may form an icicle which needs to be cleared away regularly to prevent a blocked drainage outlet.

Wrong installation



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

Wrong installation

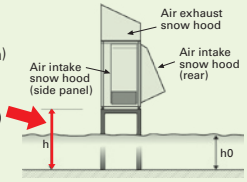


Unit may be damaged due to snowfall or icicles.

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

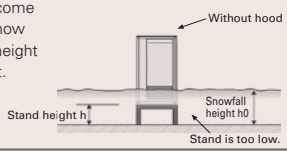
Correct installation

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



Wrong installation

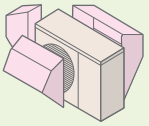
Unit may become covered in snow if the stand height is insufficient.



Install snow protection hood as necessary

[RAC / PAC / MXZ]

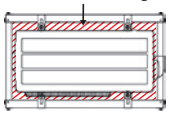
Correct installation



Point!

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

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

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

About disposal of drainage water

⚠ CAUTION

When the unit is installed in cold or snowy regions :

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

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

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

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

Indoor Unit Compatibility Table

■ MXZ Series R32

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

Indoor Unit		Outdoor Unit / Inverter Models Heat Pump Type	MXZ-*1 2F33VF4	MXZ-*1 2F42VF4	MXZ-*1 2F53VF(H)4	MXZ-*1 2F53VFHZ2	MXZ-*1 3F54VF4	MXZ-*1 3F68VF4	MXZ-*1 4F72VF4	MXZ-*1 4F80VF4	MXZ- 4F83VF2	MXZ- 4F83VFHZ2	MXZ- 5F102VF2	MXZ- 6F120VF2	MXZ-*1 2HA40VF2	MXZ-*1 2HA50VF2	MXZ-*1 3HA50VF2
M series	Wall-Mounted	MSZ-RZ25VU															
		MSZ-RZ35VU															
		MSZ-RZ50VU															
		MSZ-RW25VG	●	●	●	●	●	●	●	●	●	●	●	●			
		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)									●	●	●	●			
		MSZ-EF18VG(K)(W)(B)(S)	●	●	●	●	●	●	●	●	●	●	●	●			
		MSZ-EF22VG(K)(W)(B)(S)	●	●	●	●	●	●	●	●	●	●	●	●			
		MSZ-EF25VG(K)(W)(B)(S)	●	●	●	●	●	●	●	●	●	●	●	●			
		MSZ-EF35VG(K)(W)(B)(S)		●	●	●	●	●	●	●	●	●	●	●			
		MSZ-EF42VG(K)(W)(B)(S)			●	●	●	●	●	●	●	●	●	●			
		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															
	Floor-Standing	MFZ-KT25VG	●	●	●	●	●	●	●	●	●	●	●	●			
		MFZ-KT35VG		●	●	●	●	●	●	●	●	●	●	●			
		MFZ-KT50VG					●	●	●	●	●	●	●	●			
	1-way Cassette	MLZ-KP25VG	●	●	●	●	●	●	●	●	●	●	●	●			
		MLZ-KP35VG		●	●	●	●	●	●	●	●	●	●	●			
		MLZ-KP50VG					●	●	●	●	●	●	●	●			
		MLZ-KY20VG	●	●	●	●	●	●	●	●	●	●	●	●			
S series	2×2 Cassette	SLZ-M15FA2	●	●	●	●	●	●	●	●	●	●	●	●			
		SLZ-M25FA2	●	●	●	●	●	●	●	●	●	●	●	●			
		SLZ-M35FA2		●	●	●	●	●	●	●	●	●	●	●			
		SLZ-M50FA2					●	●	●	●	●	●	●	●			
		SLZ-M60FA2															
	Ceiling-Concealed	SEZ-M25DA2 *2	●	●	●	●	●	●	●	●	●	●	●	●			
		SEZ-M25DAL2 *2	●	●	●	●	●	●	●	●	●	●	●	●			
		SEZ-M35DA2		●	●	●	●	●	●	●	●	●	●	●			
		SEZ-M35DAL2		●	●	●	●	●	●	●	●	●	●	●			
		SEZ-M50DA2					●	●	●	●	●	●	●	●			
		SEZ-M50DAL2					●	●	●	●	●	●	●	●			
		SEZ-M60DA2						●	●	●	●	●	●	●			
		SEZ-M60DAL2						●	●	●	●	●	●	●			
		SEZ-M71DA2									●	●	●	●			
		SEZ-M71DAL2									●	●	●	●			
	Concealed Floor-Standing	SFZ-M25VA	●	●	●	●	●	●	●	●	●	●	●	●			
		SFZ-M35VA		●	●	●	●	●	●	●	●	●	●	●			
		SFZ-M50VA					●	●	●	●	●	●	●	●			
		SFZ-M60VA							●	●	●	●	●	●			
		SFZ-M71VA									●	●	●	●			
P series	Ceiling-Suspended	PCA-M50KA2					●	●	●	●							
		PCA-M60KA2						●	●	●							
		PCA-M71KA2															
	Ceiling-Concealed	PEAD-M35JA2					●*3	●*3	●*3	●*3	●*3	●*3*4	●*3	●*3			
		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			
		PEAD-M71JAL2									●*3	●*3*4	●*3	●*3			

*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.

VRF

SERIES

SELECTION

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

R410A INDOOR UNITS

Wall-mounted


MSZ-LN


MSZ-EF

MSZ-AY


MSZ-AP


MSZ-AP


MSZ-BT

Cassette


SLZ


MLZ-KP


MLZ-KY

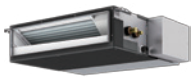
Floor-standing


MFZ-KT

Ceiling-suspended


PCA

Ceiling-concealed


SEZ


PEAD

R410A OUTDOOR UNITS

PUMY-SP


SP112/125/140V(Y)KM2

PUMY-P


P200YKM3


P250/300YBM2

R32 INDOOR UNITS

Wall-mounted


MSZ-LN


MSZ-EF

MSZ-AY


MSZ-AP


MSZ-RW


MSZ-BT

Cassette


SLZ

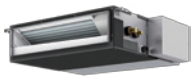

MLZ-KP


MLZ-KY

Ceiling-suspended


PCA

Ceiling-concealed


SEZ


PEAD

R32 OUTDOOR UNITS

PUMY-SM


SM112/125/140V(Y)KM

CHECK SYSTEM COMPATIBILITY

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

Check Indoor Units

Refer to the "Indoor Unit Compatibility Table" to check if the indoor units selected can be used with the outdoor unit selected. (Indoor units not listed in the table cannot be used.)

Check Indoor Unit Capacity Combination

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

If the desired combination cannot be found, please change either the indoor or outdoor unit to match one of the combinations shown in the tables.

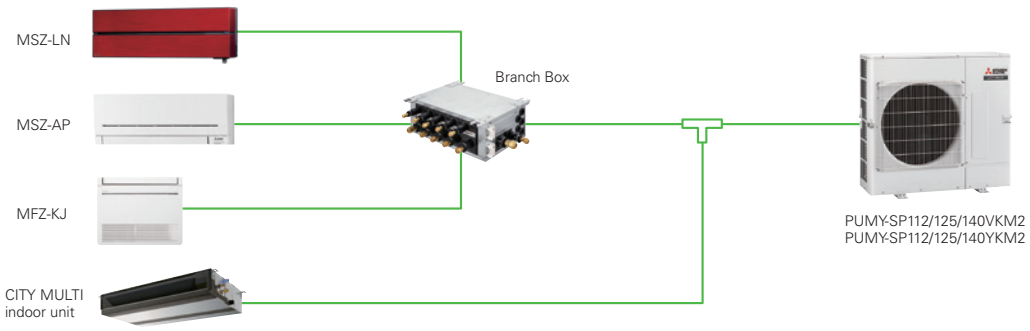
PUMY-SP SERIES

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

EXAMPLE SYSTEM



Light Weight and Compact Size

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

PUMY-P112/125/140 YKM5(-BS)

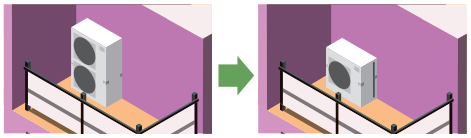
Height 1,338mm
Weight 125kg

PUMY-SP112/125/140YKM2(-BS)

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

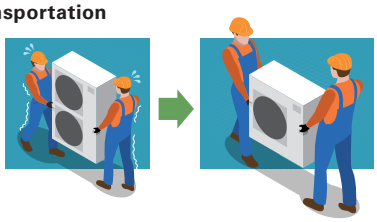
Unobstructive, compact, and easy to hide from view

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



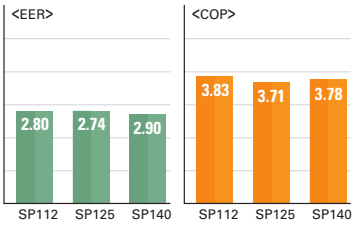
Easy installation and transportation

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



Industry's Top Energy Efficiency

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



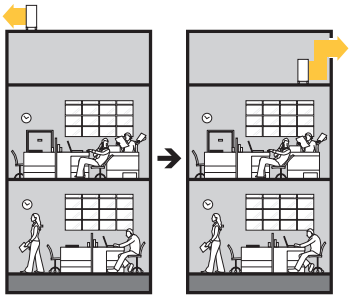
Super Silent Mode*

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

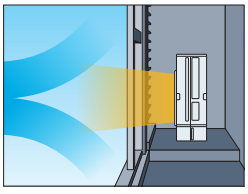
*Capacity reduction differs by mode setting.
*PAC-SC36NA-E is required to activate Super Silent mode.

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.

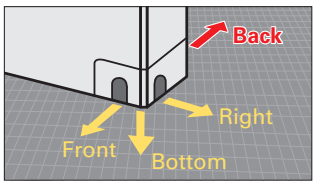


*Noise level will increase when using this function.

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.



PUMY-SP SERIES
INVERTER MULTI

Model				PUMY-SP112VKM2 (-BS)	PUMY-SP125VKM2 (-BS)	PUMY-SP140VKM2 (-BS)	PUMY-SP112YKM2 (-BS)	PUMY-SP125YKM2 (-BS)	PUMY-SP140YKM2 (-BS)
Power Source				1-phase 220-230-240V 50Hz, 220V 60Hz			3-phase 380-400-415V 50Hz, 380V 60Hz		
Cooling Capacity (Nominal)		*1	kW	12.5	14.0	15.5	12.5	14.0	15.5
	Power Input		kW	4.46	5.11	5.34	4.46	5.11	5.34
	Current 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
	EER		kW / kW	2.80	2.74	2.90	2.80	2.74	2.90
Temp. Range of Cooling	Indoor Temp.		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)
	Outdoor Temp.	*2	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)
Heating Capacity (Nominal)		*3	kW	14.0	16.0	16.5	14.0	16.0	16.5
	Power Input		kW	3.66	4.31	4.36	3.66	4.31	4.36
	Current 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
	COP		kW / kW	3.83	3.71	3.78	3.83	3.71	3.78
Temp. Range Of Heating	Indoor Temp.		D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C(59~81°F)
	Outdoor Temp.		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)
Indoor Unit Connectable	Total 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	50~130 % of outdoor unit capacity
	Model / Quantity		City Multi*4	10-140/12	10 - 140 / 12	10 - 140 / 12	10 - 140 / 12	10 - 140 / 12	10 - 140 / 12
			Branch Box*5	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
	Mixed System: Branch Box 1 unit		City Multi	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 Box 2 units		City Multi	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3
			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 Anechoic Room)			dB <A>	52/54	53/56	54/56	52/54	53/56	54/56
Sound Power Level (Measured In Anechoic Room)			dB <A>	72/74	73/76	74/76	72/74	73/76	74/76
Refrigerant Piping Diameter	Liquid 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)
	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)
Fan	Type × Quantity			Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1	Propeller 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*6	0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6	0Pa / 30Pa*6
Compressor	Type × Quantity			Twin rotary hermetic compressor × 1					
	Starting Method			Inverter					
	Motor Output		kW	3.9	3.9	4.2	3.9	3.8	4.1
External dimension H*W*D			mm	981 × 1,050 × 330 (+40)					
			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	Outdoor	Piping Length	Level Difference	External Static Press. (Outdoor Unit)
Cooling	27°C DB / 19°C WB	35°C	7.5m (24 - 9 / 16ft.)	0m (0ft)	0 Pa
Heating	20°C DB	7°C DB / 6°C WB	7.5m (24 - 9 / 16ft.)	0m (0ft)	0 Pa

*2 10 to 52°C; incase of connecting PKFY-P15/P20/P25VBM, PKFY-P10/15/20/25/32VLM, PFFY-P20/P25/P32VKM, PFFY-P20/25/32VCM, 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 PUMY-SP112/125/140YKM2-BS
*8 95 (209), for PUMY-SP112/125/140YKM2-BS

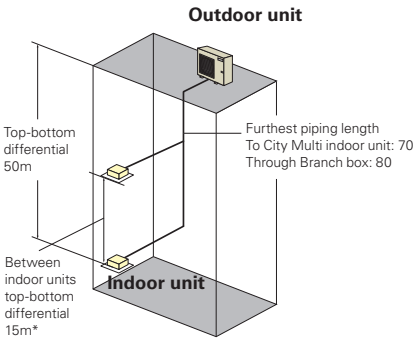
Type				Branch Box	
Model Name				PAC-MK54BC	PAC-MK34BC
Connectable Number of Indoor Units				Maximum 5	Maximum 3
Power Supply (from outdoor unit)				~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 Hz	
Input			kW	0.003	
Running Current			A	0.05 (Max. 6)	
Dimensions		H*W*D	mm	170 × 450 × 280	
Weight			kg	7.4	6.7
Piping Connection (Flare)	Branch [Indoor Side]	Liquid	mm	ø6.35 × 5	ø6.35 × 3
		Gas	mm	ø9.52 × 4, ø12.7 × 1	ø9.52 × 3
	Main [Outdoor Side]	Liquid	mm	ø9.52	
		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	✓	✓
	PUMY-P112/125/140YKM5(-BS)	N/A	N/A	✓	✓
	PUMY-P200YKM3(-BS)	N/A	N/A	✓*	✓*
	PUMY-P250/300YBM2(-BS)	N/A	N/A	✓*	✓*

*ecodan is NG



*In case of branch box connection: 12m

[SP112–140V/YKM2(-BS)]

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

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

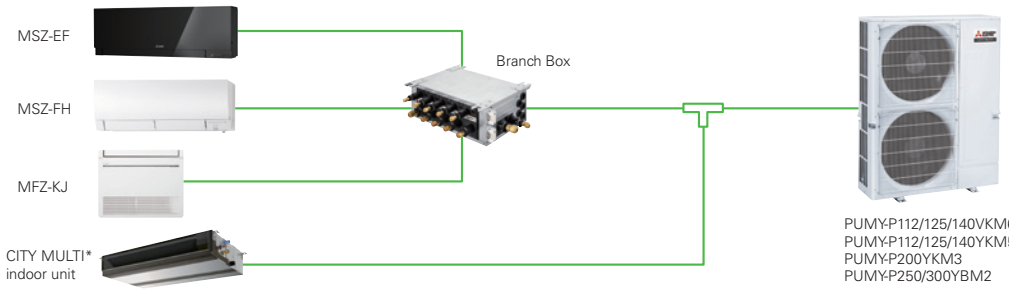
PUMY-P SERIES

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

R410A

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

EXAMPLE SYSTEM

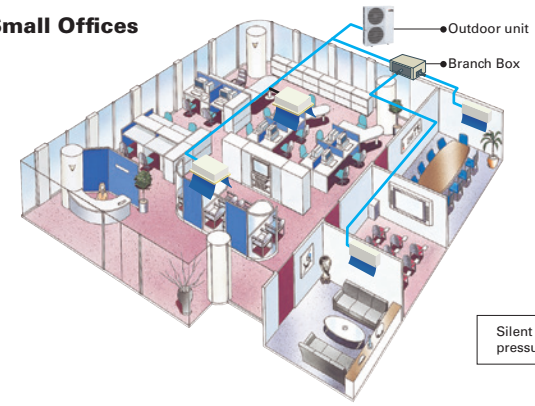


*In case of mix sytstem (CITY MULTI indoor unit with Branch box), PKFY and PFFY series are not connectable. (P112/125/140/250/300)

The Two-pipe Zoned System Designed for Heat Pump Operation

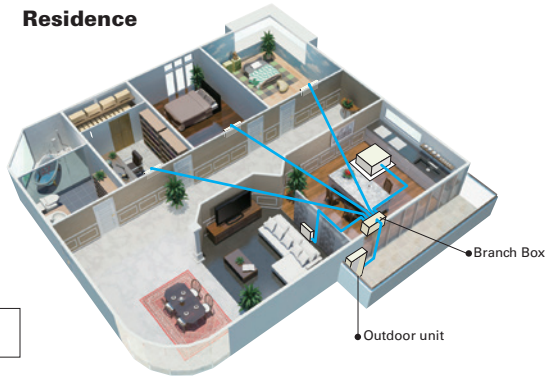
PUMY series make use of a two-pipe refrigerant system, which allows for system changeover from cooling to heating, ensuring that a constant indoor climate is maintained in all zones. The compact outdoor unit utilizes R410A refrigerant and an INVERTER-driven compressor to use energy effectively.
With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

Small Offices



Silent mode can reduce sound pressure level by 3dB(A)

Residence



			Maximum Meters			
			Only City Multi*1 Indoor Unit	Only Branch Box Connection	Mixed System (City Multi*1 Indoor Unit + Branch Box)	
					City Multi*1 Indoor Unit	Via Branch Box
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 Between Units	Indoor/Outdoor (Outdoor higher)	50	50	50	
		Indoor/Outdoor(Outdoor Lower)	40*2	40	40	
		Indoor/Indoor	15	12	12	
P200	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 Between Units	Indoor/Outdoor (Outdoor higher)	50	50	50	
		Indoor/Outdoor (Outdoor Lower)	40	40	40	
		Indoor/Indoor	15	12	12	
P250/300	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 Between Units	Indoor/Outdoor (Outdoor higher)	50	50	50	
		Indoor/Outdoor (Outdoor Lower)	40	40	40	
		Indoor/Indoor	15	12	12	

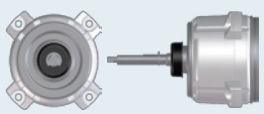
*1 Include system with connection kit *2 In case of including PKFY or PFFY, height between units is 30m.

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)
(PAC-SJ71FM-E)



PUMY-P SERIES
INVERTER MULTI

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 220-230-240V 50Hz, 220-230V 60Hz			3-phase 380-400-415V 50Hz, 380V 60Hz			3-phase 380-400-415V 50Hz		
Cooling Capacity (Nominal)		*1	kW	12.5	14.0	15.5	12.5	14.0	15.5	22.4	28.0	33.5
	Power Input		kW	4.34	5.00	5.17	4.34	5.00	5.17	7.18	8.21	11.96
	Current Input		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 Cooling	Indoor Temp.		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)
	Outdoor Temp.	*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 (Nominal)		*4	kW	14.0	16.0	18.0	14.0	16.0	18.0	25.0	31.5	37.5
	Power Input		kW	3.49	4.06	4.63	3.49	4.06	4.63	5.85	7.91	9.69
	Current Input		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 Heating	Indoor Temp.		D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)
	Outdoor Temp.		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)	-20.0~15.0°C (-4~59°F)
Indoor Unit Connectable	Total 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	50~130 % of outdoor unit capacity	50~130 % of outdoor unit capacity	50~130% of outdoor unit capacity	50~130% of outdoor unit capacity
	Model / Quantity		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 System	Branch Box 1 unit	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
			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
		Branch Box 2 units	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
			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
		Branch Box 3 units	City Multi	–	–	–	–	–	–	–	10 - 250 / 22	10 - 250 / 22
			Branch Box*6	–	–	–	–	–	–	–	15 - 50 / 12	15 - 50 / 12
Sound Pressure Level (Measured In Anechoic Room)			dB <A>	49/51	50/52	51/53	49/51	50/52	51/53	57/61	55/61	57/62
Sound Power Level (Measured In Anechoic Room)			dB <A>	69/71	70/72	71/73	69/71	70/72	71/73	76/80	74/79	75/79
Refrigerant Piping Diameter	Liquid 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)	9.52 (3/8)*7	9.52 (3/8) *8	12.7 (1/2)
	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 × Quantity			Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2	Propeller Fan × 2
	Air Flow Rate		m^3/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 Output		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 × Quantity			Scroll hermetic compressor × 1								
	Starting Method			Inverter								
	Motor Output		kW	2.9	3.5	3.9	2.9	3.5	3.9	5.3	8.87	10.15
External Dimension H*W*D			mm	1,338 × 1,050 × 330 (+40)							1,662 × 1,050 × 460 (+45)	
			in.	52-11/16 × 41-11/32 × 13 (+1-9/16)							65-7/16 × 41-11/32 × 187/64 (+1-49/64)	
Net Weight			kg (lbs)	123 (271)			125 (276)			141 (311)	192 (423)	

*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 PKFY-P10/15/20/25/32VLM, PKFY-P15/20/25VBM, PFFY-P20/25/32VKM and PFFY-P20/25/32VCM, PFFY-P20/25/32VLE(R)M, PEFY-P-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 pipe diameter: 12.7mm, when further piping length is longer than 90m, and when PEFY-P200 or P250 is connected.

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

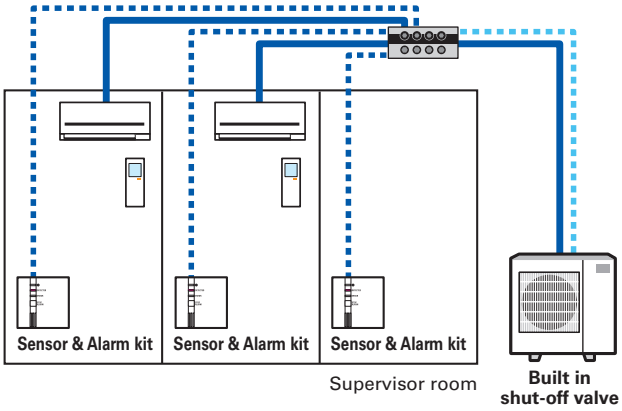
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.

R32

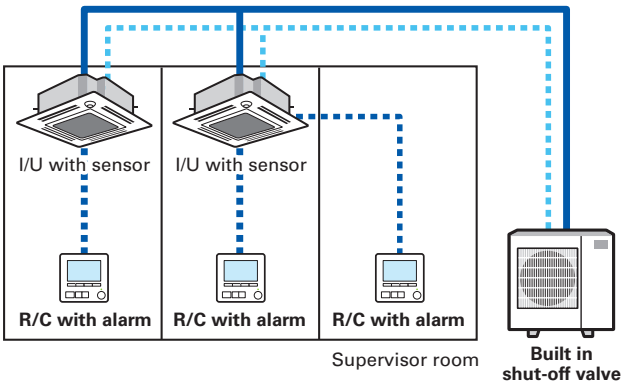
PUMY-SM112/125/140VKM
PUMY-SM112/125/140YKM

System of R32 PUMY

Branch box system



Free plan system



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

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.

■ Branch box

			
Model name		PAC-MMK40BC(B)	PAC-MMK60BC
Number of ports		4 ports	6 ports
Refrigerant		R32	R32
Input(kW)		0.003	0.006
Running current(A)		0.15	0.30
Size(mm)	H	170	170
	W	450	665
	D	372	420
Installation	Ceiling-suspended	✓	✓
	Floor-standing	✓	✓
	Vertical	✓	✓
	No need drainpan	✓	✓
Connection	Flare connection	✓	✓
	Blazing	✓	–

Branch Piping(ø) liquid/gas [mm]		
	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

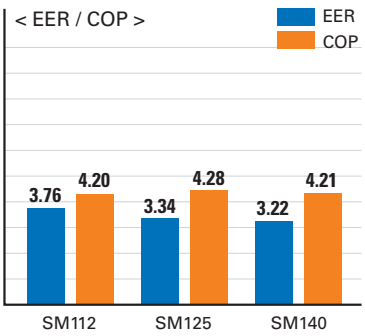
Piping/ Wiring
- Piping connection from both side and wiring connection from one side.
- If necessary, you need to flip over only electrical box to connect from the other side.

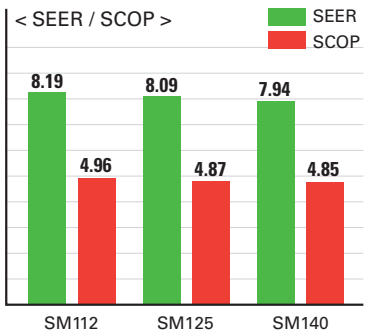
Instability
- Possible to make piping connection from both side.
- Flipping over only electrical box is not difficult for installer.
- ø9.52/ø15.88 can be connected to a large indoor unit placed in a living room or other large room.

Energy Efficiency

Even with its compact size and light-weight, 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.

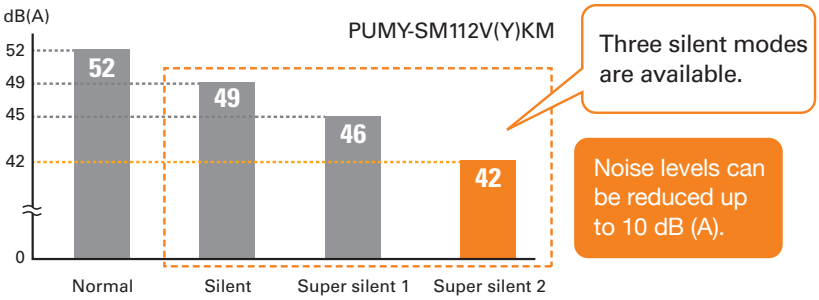




Super Silent Mode*

- 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.
✻ Cooling mode only.



PUMY-SM SERIES
INVERTER MULTI

Model				PUMY-SM112VKM	PUMY-SM125VKM	PUMY-SM140VKM	PUMY-SM112YKM	PUMY-SM125YKM	PUMY-SM140YKM
Power source				1-phase 220-230-240V 50Hz, 220V 60Hz			3-phase 380-400-415V 50Hz, 380V 60Hz		
Cooling Capacity (Nominal)			kW	12.5	14.0	15.5	12.5	14.0	15.5
	Power Input		kW	3.32	4.19	4.81	3.32	4.19	4.81
	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 - 7.35 - 7.09 / 7.74
	EER		kW / kW	3.76	3.34	3.22	3.76	3.34	3.22
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)	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)
	Outdoor Temp.*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)
Heating Capacity (Nominal)			kW	14.0	16.0	17.5	14.0	16.0	17.5
	Power Input		kW	3.33	3.74	4.16	3.33	3.74	4.16
	Current Input		A	15.45 - 14.77 - 14.16 / 15.45	17.30 - 16.55 - 15.86 / 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 - 6.31 - 6.08 / 6.64
	COP		kW / kW	4.20	4.28	4.21	4.20	4.28	4.21
Temp. Range Of Heating	Indoor Temp.		D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C (59~81°F)	15.0~27.0°C(59~81°F)
	Outdoor Temp.		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)
Indoor Unit Connectable	Total 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	50~130 % of outdoor unit capacity
	Model / Quantity		City Multi	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 box 1unit	City Multi	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4	10 - 140 / 3 or 5*4
			Branch Box	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5	15 - 100 / 4 or 6*5
		Branch box 2unit	City Multi	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6	10 - 140 / 2 or 3*6
			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 Diameter	Liquid Pipe		mm (in.)	9.52 Flare	9.52 Flare	9.52 Flare	9.52 Flare	9.52 Flare	9.52 Flare
	Gas Pipe		mm (in.)	15.88 Flare	15.88 Flare	15.88 Flare	15.88 Flare	15.88 Flare	15.88 Flare
Fan	Type × Quantity			Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1	Propeller Fan × 1	Propeller 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	0Pa / 30Pa*7	0Pa / 30Pa*7	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)					
Net Weight			kg (lbs)	95 (209)*8			97(214) *9		
Pre-Charged Quantity	Weight		kg	3.0	3.0	3.0	3.0	3.0	3.0
	CO_2 equivalent		t	2.03	2.03	2.03	2.03	2.03	2.03
Max System Quantity	Weight		kg	7.5	7.5	7.5	7.5	7.5	7.5
	CO_2 equivalent		t	5.06	5.06	5.06	5.06	5.06	5.06

*1 15 to 23°C when using branch box(M/S/P series)
*2 10 to 52°C: incase of connecting PKFY-MS*VKM, PKFY-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-SH95AG-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 City Multi indoor units are 5.
*5 When connected branch box is PAC-MMK40BC(B), connectable indoor units via branch box are 4; connected branch box is PAC-MMK60BC, connectable indoor units via branch box are 6.
*6 When connected branch boxes are PAC-MMK40BC(B) and PAC-MMK60BC, connectable City Multi indoor units are 2; connected branch boxes are PAC-MMK40BC(B) and PAC-MMK40BC(B), connectable City Multi indoor units are 3; connected branch boxes are PAC-MMK60BC and PAC-MMK60BC are not allowed.
*7 0 Pa as initial setting
*8 96 (212), for PUMY-SM112/125/140VKM-BS
*9 98 (216), 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 + PAC-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	Type	Model Name	Capacity										
			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•VG					●	●		●			
		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	Capacity									
			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	Type	Model Name	Capacity												
			P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY MULTI series	1-way cassette	PMFY-P•VBM-E			●	●	●	●								
	2-way cassette	PLFY-P•VLMD-E			●	●	●	●	●	●		●	●	●		
	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	Type	Model Name	Capacity										
			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•VG					●	●		●			
		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	Capacity									
			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	Type	Model Name	Capacity												
			P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY MULTI series	1-way cassette	PMFY-P•VBM-E			●	●	●	●								
	2-way cassette	PLFY-P•VLMD-E			●	●	●	●	●	●		●	●	●		
	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-50/100RD(H)4													

CITY MULTI Indoor Unit Compatibility Table for PUMY-P200

Series	Type	Model Name	Capacity												
			P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200
CITY MULTI series	1-way cassette	PMFY-P•VBM-E			●	●	●	●								
	2-way cassette	PLFY-P•VLMD-E			●	●	●	●	●	●		●	●	●		
	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-50/100RD(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	Type	Model Name	Capacity										
			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							
			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	Type	Model Name	Capacity													
			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			●	●	●	●	●	●		●	●	●			
	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			●	●	●	●	●	●	●	●	●	●	●		
		PEFY-P•VMA(L)-A1			●	●	●	●	●	●	●	●	●	●	●		
		PEFY-P•VMHS-E						●	●	●	●	●	●	●	●	●	●
		PEFY-P•VMHS-E-F															●
	Ceiling-suspended	PCFY-P•VKM-E						●		●			●	●			
	Wall-mounted	PKFY-P•VLM-E	●	●	●	●	●	●	●								
		PKFY-P•VKM-E								●			●				
	Floor-standing	PFFY-P•VKM-E2			●	●	●	●									
		PFFY-P•VLEM-E			●	●	●	●	●	●							
		PFFY-P•VCM-E			●	●	●	●	●	●							
	Lossnay *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-SM Series

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

Model Name		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•VG					●	●		●			
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 Name		Sensor	10	15	20	25	32	40	50	63	71	80	100	125	140
CITY MULTI series	PLFY-M•VEM6-E				●	●	●	●	●	●	●	●	●	●	
	PEFY-M•VMA(L)-A1				●	●	●	●	●	●	●	●	●	●	●
	PLFY-MS•VEM-E	✓			●	●	●	●	●	●		●	●	●	
	PLFY-MS•VFM-E	✓		●	●	●	●	●	●						
	PCFY-MS•VKM-E	✓						●		●			●	●	
	PKFY-MS•VLM-E	✓	●	●	●	●	●	●	●						
	PKFY-MS•VKM-E	✓								●			●		
	PEFY-MS•VMA(L)-A	✓			●	●	●	●	●	●	●	●	●	●	●

Outdoor Unit Functions

Demand control Demand Control

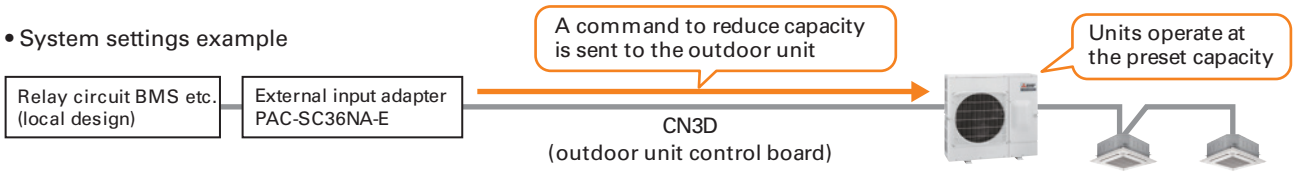
This function reduces the capacity of the outdoor/heat source unit by way of the external input to the outdoor unit.
The capacity of the outdoor unit can be reduced in steps, with patterns ranging from 2 to 12 control steps depending on the system. The number of steps that can be set and the corresponding 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.

• System settings example



Pump down 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 Dual Set Point

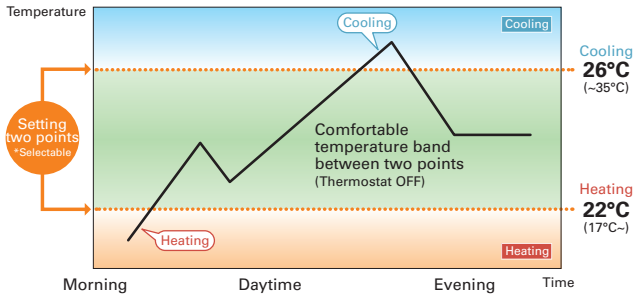
Normally, the desired room temperature is set to the same value for cooling and heating. However, the dual set point function allows different temperatures to be set for cooling and heating. When operation switches from cooling to heating or vice versa, the preset temperature changes accordingly.

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.

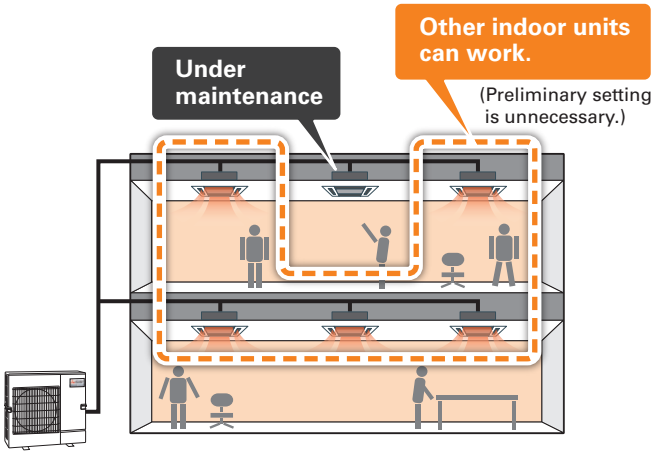
* This function is supported only when all the indoor units, remote controllers, and system controllers that are connected to a given group are compatible with the function.

• Operation pattern in Auto (dual set point) mode



Individual LEV 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

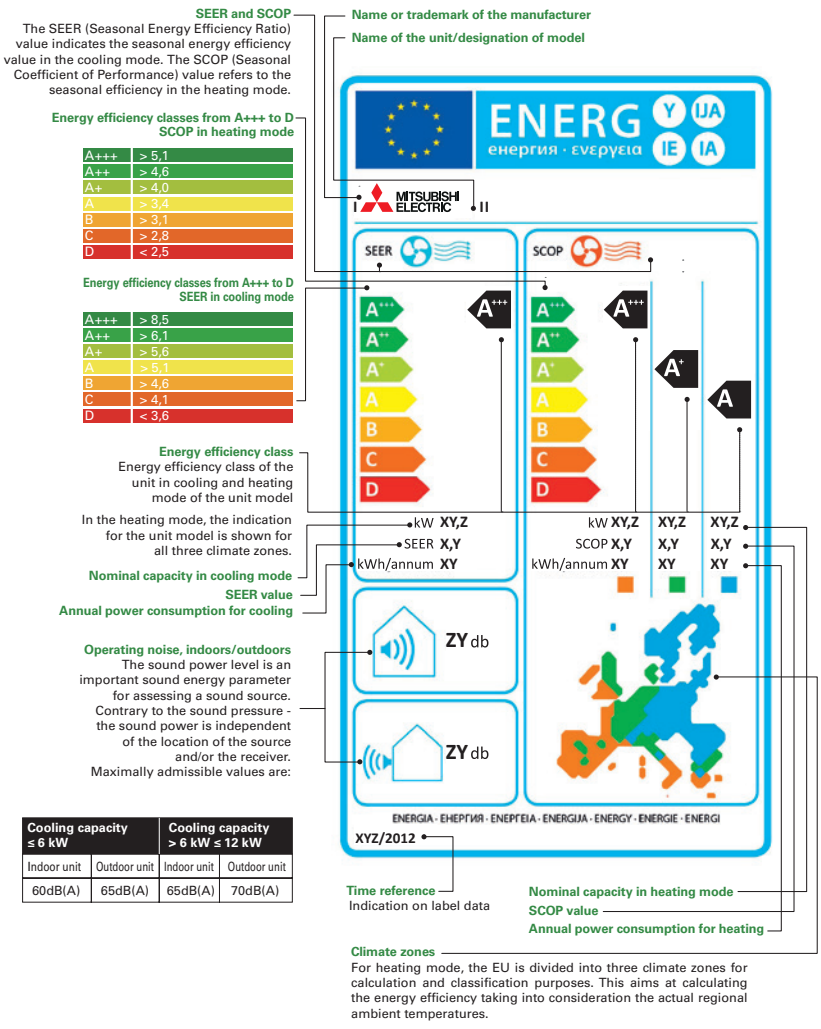
WHAT IS THE ErP DIRECTIVE?

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 future-orientated technologies, Mitsubishi Electric is one step ahead of these changes, with our air conditioning systems already achieving compliance with these new regulations.

NEW ENERGY LABEL AND MEASUREMENTS

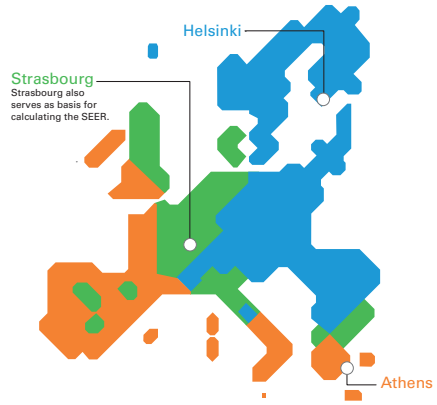
Under regulation 2011/626/EU, supplementing directive 2010/30/EU, air conditioning systems are newly classified into energy-efficiency classes on the basis of a new energy labelling system, which includes three new classes: A^{+}, A^{++} and A^{+++}.
Revisions to the measurement points and calculations of the seasonal energy efficiency ratio (SEER) and seasonal coefficient of performance (SCOP) has resulted in changes to how air conditioning systems are classified into energy-efficiency classes.
Specifically, for cooling mode, air conditioning systems must achieve at least class B. For heating mode, air conditioning systems must achieve at least a SCOP value of 3.8.

■New Energy Efficiency Label



■Climate Zones for Heating Mode

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



Warm (Athens)

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

Moderate (Strasbourg)

Partial load	Temperature conditions Outdoors DB	Outdoors WB	Indoors 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

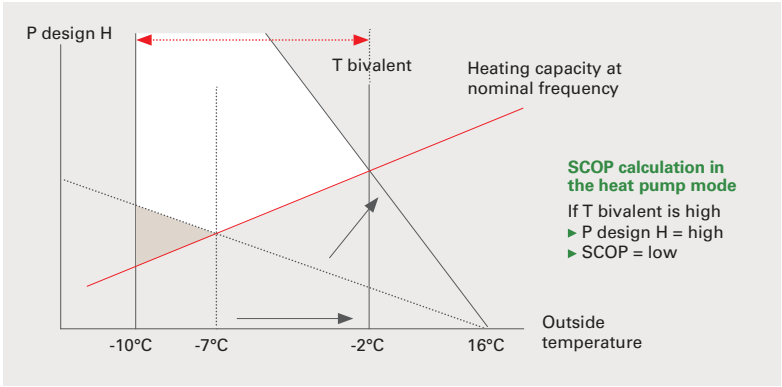
Cold (Helsinki)

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

SEER/SCOP

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

■SCOP Calculation



Technical Terms with Respect to the SCOP

P design H: Corresponds to a heating load of 100%. The value depends on the selected bivalence point.

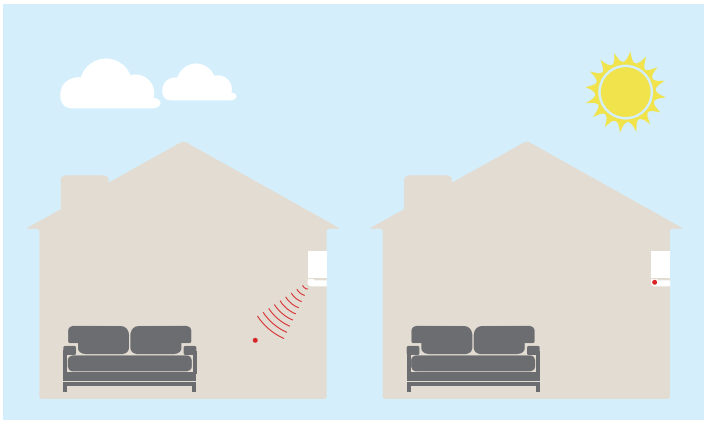
T design: Outside temperature which determines the P design H point. The latter is determined from the area conditions.

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

SOUND PRESSURE LEVEL

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

■Sound Pressure vs Sound Power Level



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

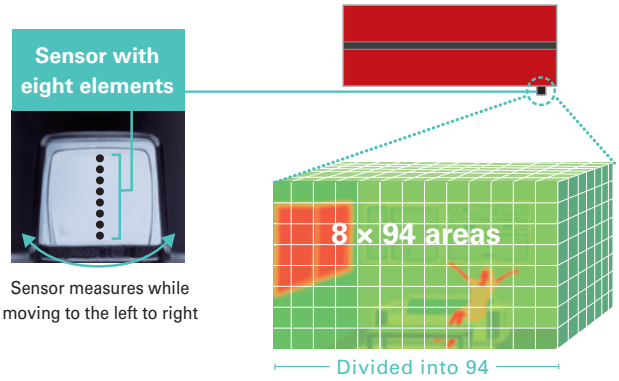
Sound power level dB(A)
The sound power is an acoustic parameter which describes the source strength of a sound generator and is thus independent of the distance to the receiver location.

COMFORT

3D i-see Sensor

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.

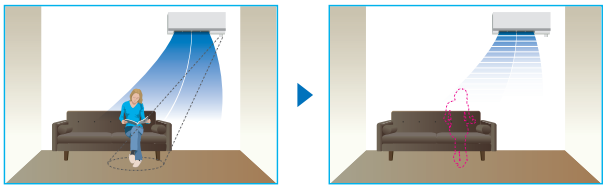


Sensor measures while moving to the left to right

(Image)

No occupancy energy-saving mode

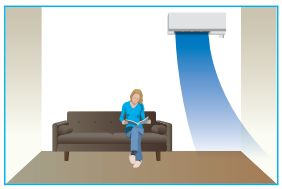
The sensors detect whether there are people in the room. When no-one is in the room, the unit automatically switches to energy-saving mode.



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

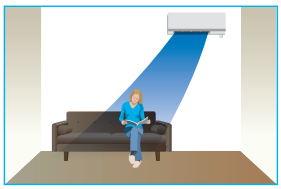
Indirect Airflow

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



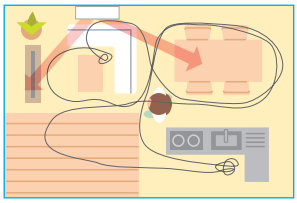
Direct Airflow

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



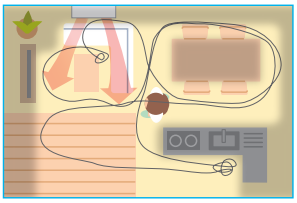
Even Airflow *LN Series only

Normal swing mode



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

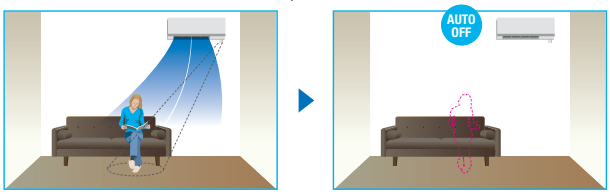
Even airflow mode



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

No 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.



ENERGY-SAVING

Econo Cool Energy-Saving Feature

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

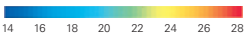
	Conventional	Econo Cool
Ambient temperature	35°C	35°C
Set temperature	25°C	27°C
Perceived temperature	30°C	29.3°C

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

Econo Cool on

Conventional cooling mode

Temperature distribution (°C)



Demand Function (Onsite Adjustment)

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

[Example: Power Inverter Series]
Limit energy consumption by changing the settings of SW7-1, SW2 and SW3 on the control board of the outdoor unit. The following settings are possible.

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

✻PUHZ outdoor only

AIR 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.

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.

New Circulator

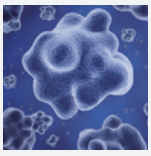
The new circulator mode enhances room comfort by using the i-See sensor to detect temperature variations between the ceiling and the foor.

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

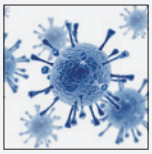


<LN series>
Neutralizes 99% of Staphylococcus aureus in 162 minutes in a 25 m^3 test space.
Test No.2016-0118
tested by KRCES-Bio.

<AY series 25-50>
Neutralizes 99% of Staphylococcus aureus in 186 minutes in a 25 m^3 test space.
Test No.22046475001-0301
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.

Viruses

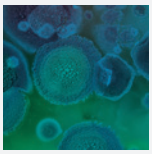


<LN series>
Neutralized 99.8% of SARS-CoV-2 in 360 minutes.*1
Test No.20KB070569
tested by Japan Textile Products Quality and Technology Center
Neutralizes 99% of Influenza A virus particles in 72minutes in a 25 m^3 test space.
Test No.28-002
tested by vrc.center, SMC

<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 m^3 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.

Molds

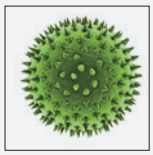


<LN series>
Neutralizes 99% of Penicillium citrinum in 135 minutes in a 25 m^3 test space.
Test No. 16069353001-0201
tested by Japan Food Research Laboratories

<AY series 25-50>
Neutralizes 99% of Penicillium citrinum in 251 minutes in a 25 m^3 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-21010-G060
tested by Japan Food Research Laboratories

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.

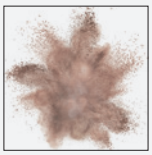
PM2.5

<LN series>
Neutralizes 90% of PM2.5 particles in 83minutes, 99% of PM2.5 particles in 166minutes in a 28 m^3 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 m^3 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)

Dust



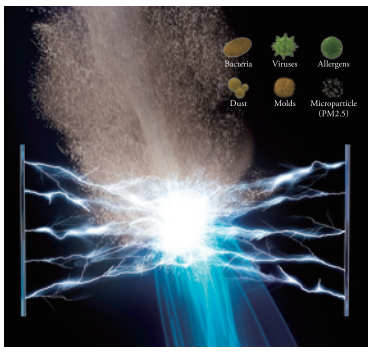
<LN series>
Neutralizes 99.7% of dust and mites.*1
Test No.T1606028
tested by ITEA Inc.

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

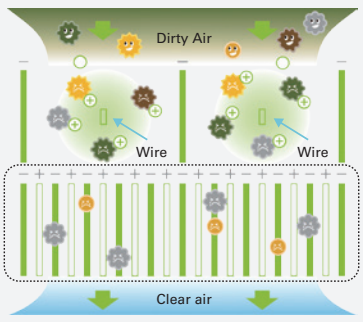
<AY series 15/20 >
Neutralizes 97% of dust (JIS test POWDER 1 Class 11(JIS11)).*1
Test No.LSRL-21010_G063
tested by ITEA Inc.

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

Image of Plasma Quad Plus



Principle of Plasma Quad Plus



Dust, PM2.5
Viruses
Bacteria
Mold
Allergens

1st stage
- Make plasma.
- Break mold and allergens. Inhibit viruses.
- Dust and PM2.5 given an electrical charge (+).

2nd stage
- Make a strong electrical field.
- The charged dust and PM2.5 (+) are absorbed in the strong electrical field (–).

Hi-performance Plasma Filtration System

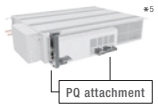
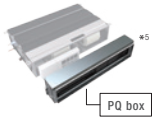
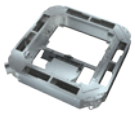
Plasma Quad Connect (Optional Parts)

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.

Virus 99% inhibited*1 *2	Bacteria 99% inhibited*2
Mold 99% inhibited*2	Dust 99.7% inhibited
Allergen 98% inhibited	PM2.5 99% inhibited*2

*1 The result of test with Influenza A virus.
*2 The result is based on the test with a device installed on the representative indoor unit. (MSZ-AP series)

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		 *5 PQ attachment	 *5 PQ box		 *8
Compatible with	MSZ, PKA, and PKFY*2 (Wall mounted models)	SEZ, PEAD, and PEFY*2	PEAD, and PEFY*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-SK54/46KF-E (V blocking filter).

Test Report Results

The following results were obtained from the test conducted under a 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
	Influenza A	JEM1467	25m³	175min	99% inhibited*10	SMC Virus Research Center Japan (JAPAN)	R2-003
Bacteria	Staphylococcus Aureus	GB21551.6-2010	30m³	335min	99% inhibited*10	CHEARI (Beijing) Certification & Testing Co., Ltd.	WK-21-50161
Mold	Penicillium Citrinum	JEM1467	25m³	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	—*8	—	99.7% inhibited*11	Institute of Tokyo Environmental Allergy (JAPAN)	No.T1606028
PM2.5	Cigarette smoke	JEM1467	25m³	300min	99% inhibited*10	Life Science Research Laboratory (JAPAN)	SRL-21010E-E091

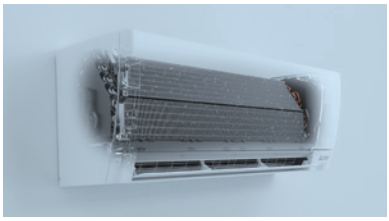
*8 The test was conducted on the Plasma Quad device alone, not designed to evaluate product performance. *9 The result without the effect of natural attenuation is 96.3%.
*10 The result is based on the test with a device installed on the representative indoor unit.(MSZ-AP series) *11 It shows the result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

AIR QUALITY

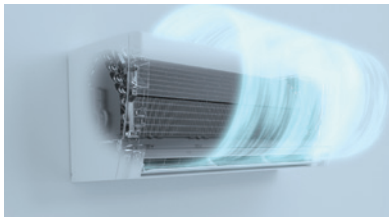
Self Clean mode

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.

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



2. Airflow operation suppresses mycelial growth.



3. Maintains clean unit interior.

*The picture is for illustrative purposes only.

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.

V Blocking Filter

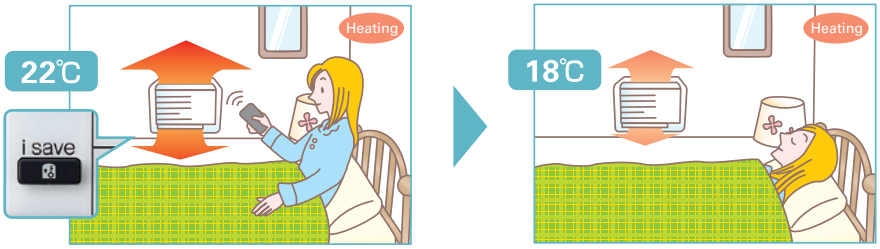
V Blocking Filter with antiviral effect inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen. Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.

CONVENIENCE

CONVENIENCE

"i save" Mode

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



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

Auto Changeover

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

Low-temperature Cooling

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

Ampere Limit Adjustment

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

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

Operation Lock (Indoor Unit)

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

Operation Lock (Outdoor Unit)

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

Auto Restart

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

10°C Heating

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

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

Night Mode

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

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

*The cooling/heating capacity may drop.
*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.

On/Off Operation Timer

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

Built-in Weekly Timer Function

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

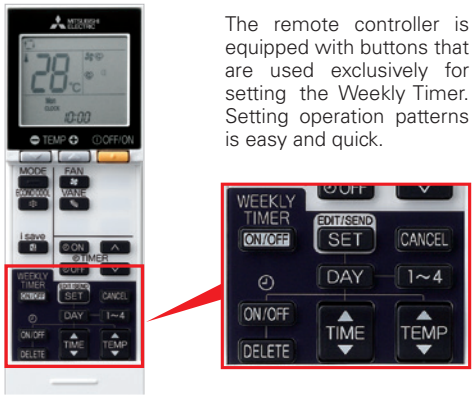
Example Operation Pattern (Winter/Heating mode)

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

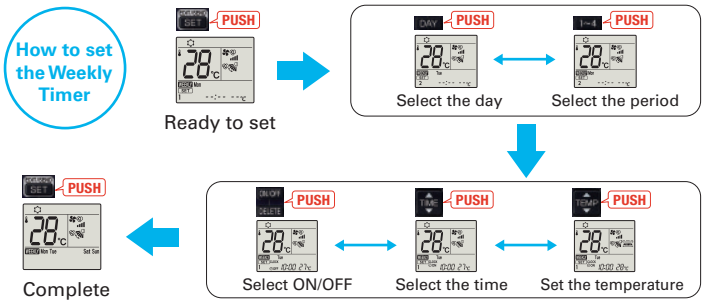
Settings

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

Easy set-up using dedicated buttons



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



- 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.

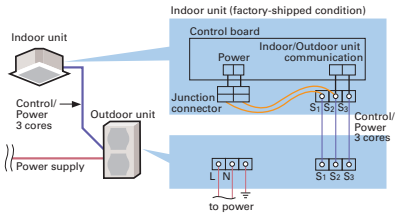
Reuse of Existing Wiring

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

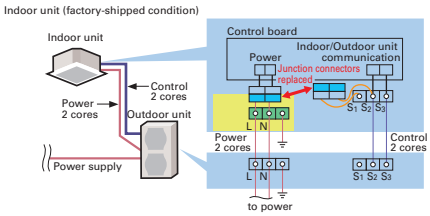
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently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

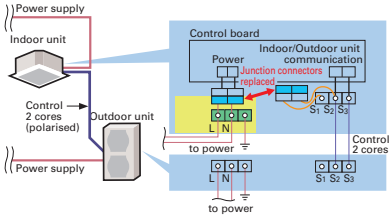
Single Harness Control/Power Line Method (Current method)



Dual Harness Control Line/Power Line Method



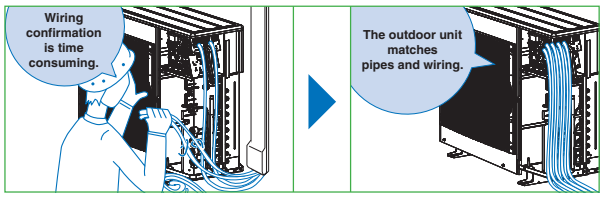
Separate Power Supply Method



Wiring/Piping Correction Function*

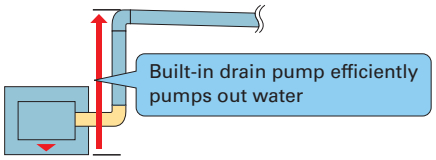
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served.

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



Drain Pump

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



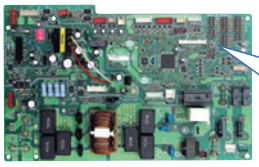
Flare Connection

Flare connection to cooling pipe work is possible.

Pump Down Switch

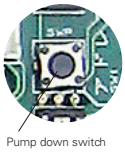
Enables smooth and easy recovery of refrigerant. Simply press the "Pump Down" switch before moving or changing the unit.

Outdoor unit control circuit board



* Photo of Model PUHZ-P100

Pump Down Switch



Pump down switch

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

MAINTENANCE

Self-Diagnostic Function (Check Code Display)

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

Failure Recall Function

Operation failures are recorded, allowing confirmation when needed.

SYSTEM CONTROL

SYSTEM CONTROL

PAR-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.

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.)

System Group Control

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

MXZ Connection

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

M-NET Connection

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

MELCloud (Wi-Fi Interface)

MELCloud for fast, easy remote control and monitoring

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

Key control and monitoring features

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

   Schedule timer - Set 7 day weekly schedule
   Error status
4. **Energy Consumption Monitoring**

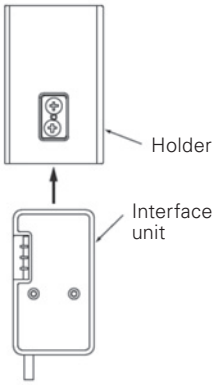
MELCloud™

MELCloud uses the MAC-587IF interface

When mounting on the wall

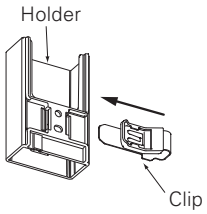
The interface can be mounted simply by affixing the holder to the wall on either side of the unit and inserting the interface unit into the holder.

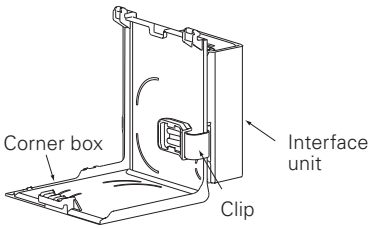
*When mounting on the right side of the unit



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

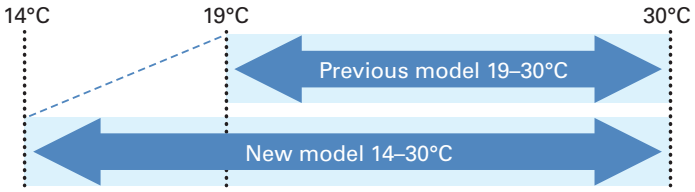
Bottom left

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.

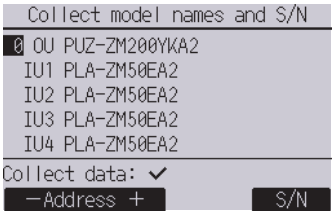


Display of Model Names and Serial Numbers*

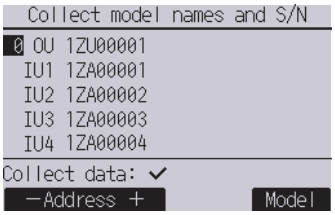
The model names and serial numbers of the indoor/outdoor units that are connected to the MA smart remote controller can be automatically acquired and displayed through one simple operation. This eliminates the need to directly check each unit and helps with inquiries in the case of an abnormality.

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

●Model name display (example)



●Serial number display (example)

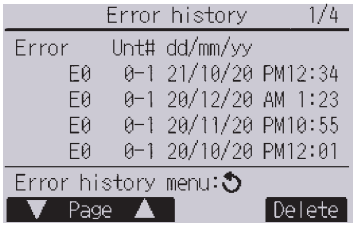


Preliminary Error History*

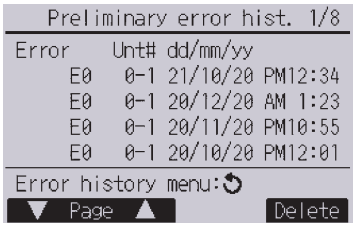
In addition to error history, the history of permissible abnormalities can be displayed. The feature enables the unit status check during inspection and maintenance.

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

●Error history (Sample)



●Preliminary error history (Sample)



Display of Power Consumption*

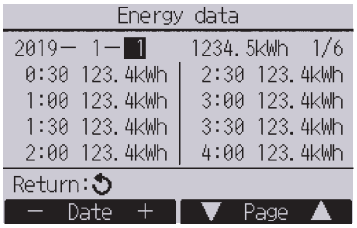
It is possible to measure, acquire, and display the amount of energy used by each air conditioning system.

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

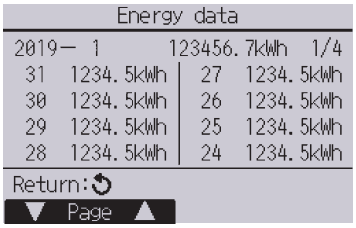
< Data Collection Period >
Time data: Every 30 minutes over the past month
Monthly/daily data: Monthly over the past 14 months

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.

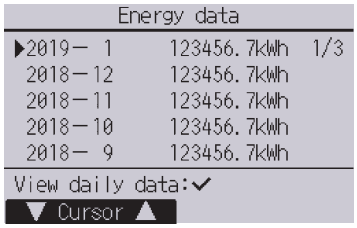
●Every 30 minutes (example)



●Daily (example)



●Monthly (example)

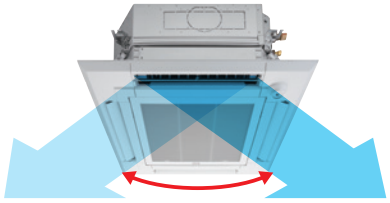


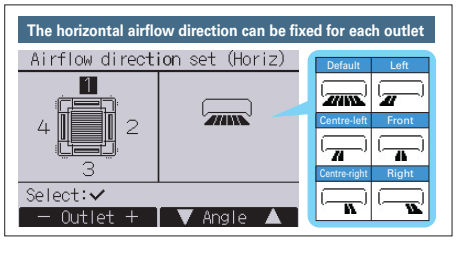
Horizontal Airflow Settings

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.

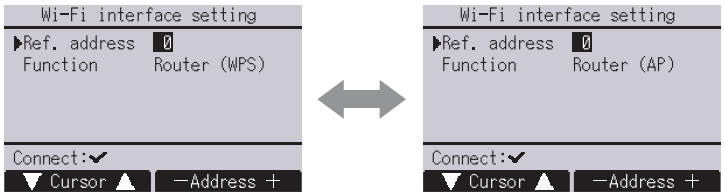
When 3D Total Flow is equipped





Wi-Fi Interface Setting

When setting up a wireless LAN connection, it is now possible to switch between WPS and AP modes via the remote controller. You can configure a wireless network using the most convenient method according to the installation environment.



Easy To Read & Easy To Use

Inverted Display Screen

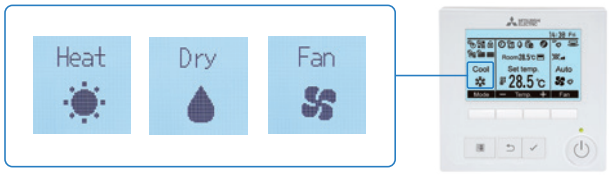
The screen background color can be set to black to suit the atmosphere of the installation location.

Full Dot Liquid-crystal Display Adopted

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

Display Example [Operation Mode]

Full Dot LCD



Multi-language Display

Multi-language

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		

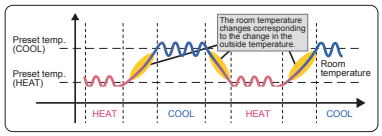
Temperature Control

Dual Set Point

Two preset temperatures

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

Operation pattern during Auto (Dual Set Point) mode



*Please refer to the function list on page 205-211 for the combination of the available units.

Energy-efficient Control

Operation Control Functions

Energy-saving Schedule

Precise control of power consumption

The amount of power consumed in each time period is managed so that the demand value is not exceeded. The demand control function can be set to start and finish in 5-minute units. Additionally, the level can be adjusted to 0, 50, 60, 70, 80 or 90% of maximum capacity, and up to 4 patterns can be set per day. Air-conditioning operation is automatically controlled to ensure that electricity in excess of the contracted volume is not consumed.

■Setting pattern example

Start time		Finish time	Capacity savings
8:15	→	12:00	80%
12:00	→	13:00	50%
13:00	→	17:00	90%
17:00	→	21:00	50%

Auto-return

Prevents wasteful operation by automatically returning to the preset temperature after specified operating time

After adjusting the temperature for initial heating in winter or cooling on a hot summer day, it is easy to forget to return the temperature setting to its original value. The Auto-return function automatically resets the temperature back to the original setting after a specified period of time, thereby preventing overheating/overcooling. The Auto-return activation time can be set in 10-minute units, in a range between 30 and 120 minutes.

*Auto-return cannot be used when Temperature Range Restrictions is in use.

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

Full color touch panel display

Touch Panel

3.5 inch/HVGA Full Color LCD

Operation panels

Temperature setting / Operation mode / Fan speed

Vane control / Ventilation / Louver control

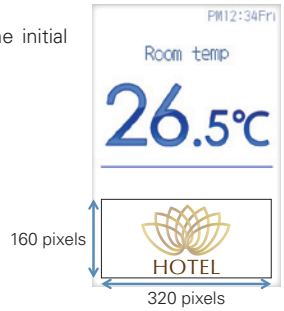
Flexibility Customized display, color on parameter and background, editable parameter, logo image on the initial display

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.

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

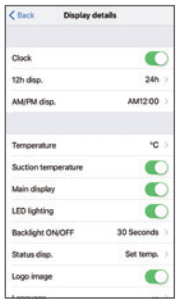
Bluetooth® low energy technology

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.

<App screen image>

User App



Setting App

Convenient BLE transmission functions for installation contractors

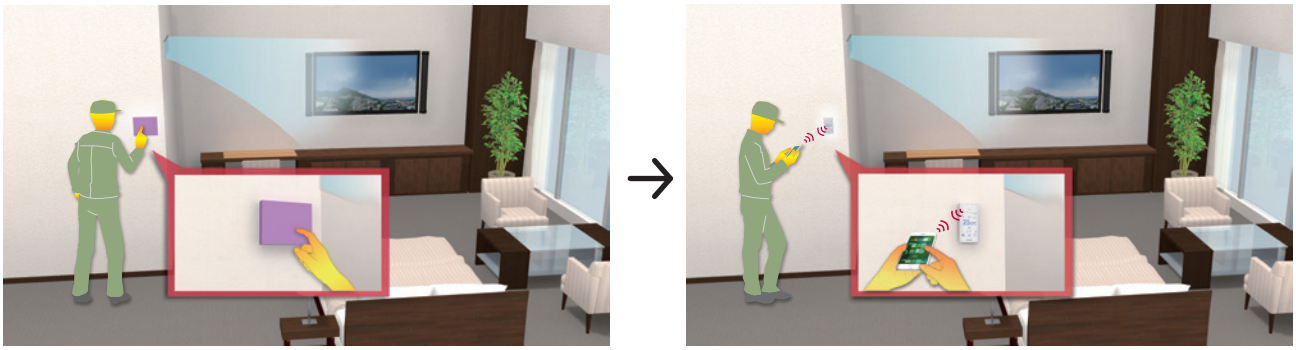
Initial setup for the remote controller can be easily performed using BLE transmission via a smartphone.

● Previous model

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

● New model

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

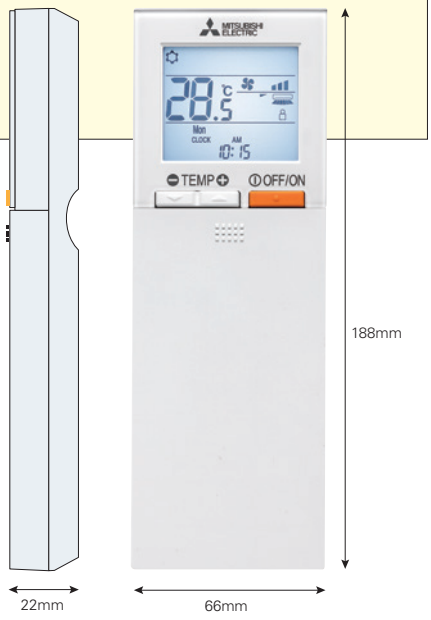
For example, hotel guests can operate the air conditioner via their smartphones, without getting out of bed.

Multilingual support

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

CONTROL TECHNOLOGIES

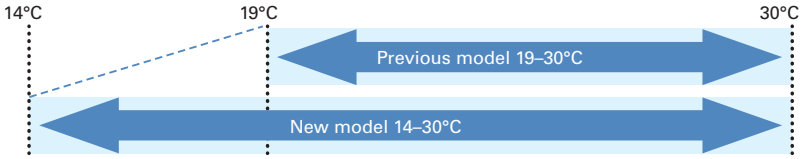
Wireless Remote Controller
PAR-SL101A-E



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.

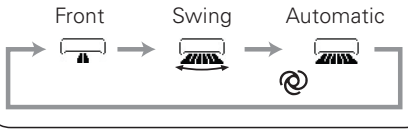


Horizontal Airflow Settings

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.

Front	Centre-right	Right	Centre-left	Left	No setting
					

[Setting the horizontal airflow function]

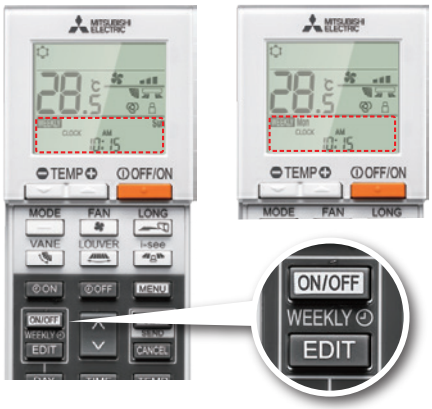


Weekly Timer

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

■ **Example Operation Pattern (Winter/Heating mode)**

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



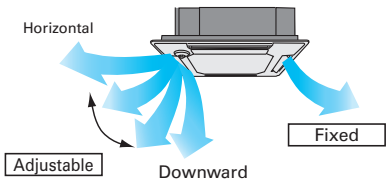
*Weekly Timer cannot be used when On/Off Timer is in use.
*Only for SLZ-KF25/35/50/60VA2, PLA-ZP/RP35/50/60/71/100/125/140EA

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.

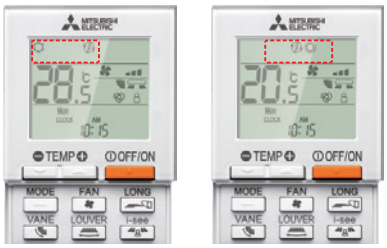


Battery Replacement Sign

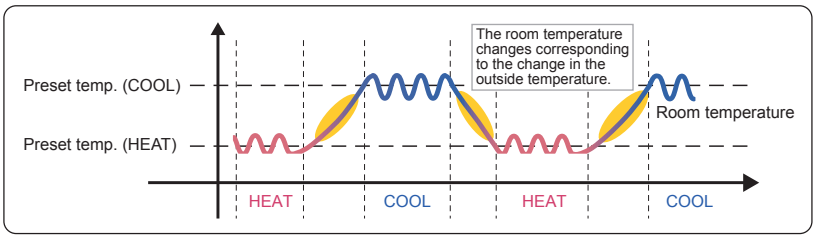
Previous wireless remote controllers were not easy to read, understand or use sometimes because the battery was low. Beginning with the PAR-SL101A-E, a battery charge indicator that shows the charge status is included in the LCD so it can be seen when the battery is low and needs to be changed.

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

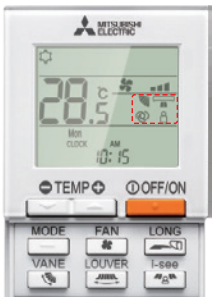


* Only available for compatible models.

3D i-see Sensor (Direct/Indirect Airflow)

Pressing the i-see button enables direct or indirect setting of all vanes.

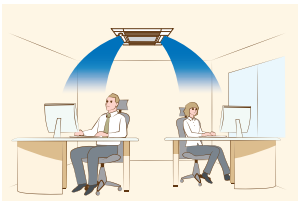
Direct



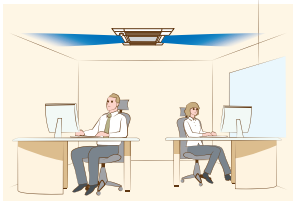
Indirect

	Vane setting	
	Direct	Indirect
Cooling	horizontal → swing	keep horizontal
Heating	keep downward	downward → horizontal

Direct Airflow



Indirect Airflow



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

Basic Functions

Functions	Button	Liquid crystal
OFF / ON	OFF/ON	
Preset temperature	TEMP	
Mode	MODE	Cool, Dry, Heat, Fan, Auto, Dual set point (*Dual Set Point function not operational first use.)
Fan speed	FAN	4-Speed, Auto
Vane angle	VANE	5-step, Swing, Auto
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

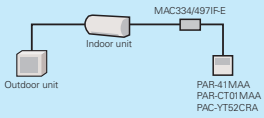
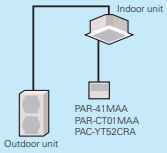
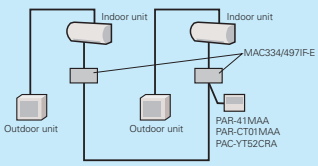
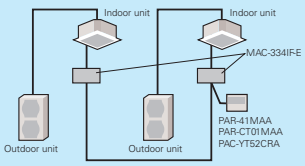
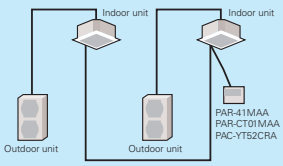
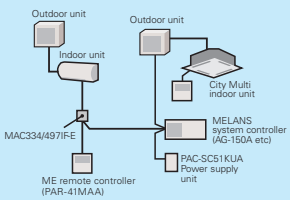
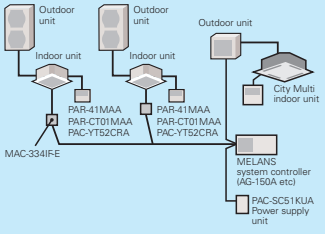
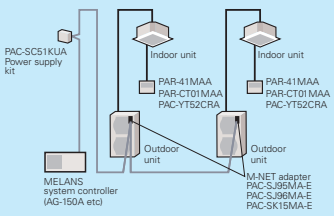
*This remote controller is only compatible with the following models: SLZ-M15/25/35/50/60FA, PLFY-P15/20/25/32/40/50VFM-E1, PLA-ZM/RP35/50/60/71/100/125/140EA, PLFY-P20/25/32/40/50/63/80/100/125VEM-E

*Functions available vary according to the model.

SYSTEM CONTROL

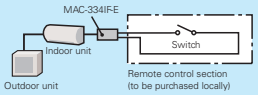
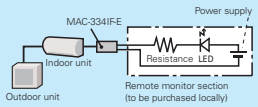
Versatile system controls can be realised using optional parts, relay circuits, control panels, etc.

MAJOR SYSTEM CONTROL

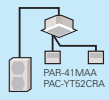
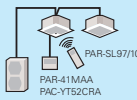
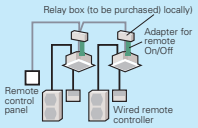
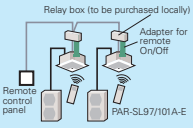
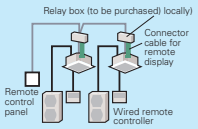
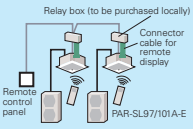
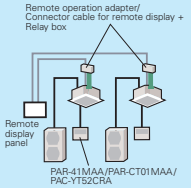
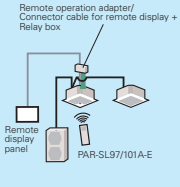
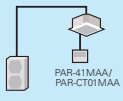
	System Examples		
Indoor Unit	M Series Indoor Unit	S Series & P Series Indoor Unit	S Series & P Series
Outdoor Unit	M Series and MXZ Series Outdoor	S Series and MXZ Series Outdoor	P Series Outdoor
PAR-41MAA Control PAC-YT52CRA Control			
Details	• Wired remote controller can be connected to indoor unit	Standard equipment (for indoor units compatible with wired remote controllers)	
Major Optional Parts Required	• MAC334/497IF-E (Interface) • PAR-41MAA (Wired remote controller) • PAR-CT01MAA (Wired remote controller) • PAC-YT52CRA (Wired remote controller)	• PAR-41MAA (Wired remote controller) • PAR-CT01MAA (Wired remote controller) • PAC-YT52CRA (Wired remote controller)	
System Group Control			
Details	• One remote controller can control plural air conditioners with the same settings simultaneously. • One remote controller can control up to 16 refrigerant systems. (When connected to a MXZ unit, MAC-334IF-E is counted as one system.) • Up to two remote controller can be connected. • PAR-SL101A cannot be used when connected through the MAC-334IF-E or when group control is used.		
Major Optional Parts Required	• MAC334/497IF-E (Interface) • PAR-41MAA (Wired remote controller) • PAR-CT01MAA (Wired remote controller) • PAC-YT52CRA (Wired remote controller)		• PAR-41MAA (Wired remote controller) • PAR-CT01MAA (Wired remote controller) • PAC-YT52CRA (Wired remote controller)
M-NET Connections			
Details	• Group of air conditioners can be controlled by MELANS system controller (M-NET).		
Major Optional Parts Required	• MAC334/497IF-E (M-NET Interface) • MELANS System controller • PAC-SC51KUA (power supply unit)		• PAC-SJ95MA-E or PAC-SJ96MA-E (M-NET converter) • MELANS System controller • PAC-SC51KUA (power supply unit)

OTHERS

For M Series Indoor Units (New A-control Models Only)

	System Examples	Connection Details	Control Details	Major Optional Parts Required
1 Remote On/Off Operation • Air conditioner can be started/stopped remotely. (1 and 2 can be used in combination)		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)		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		Details	Major Optional Parts Required
	Wired remote controller	Wireless remote controller		
A 2-remote Controller Control With two remote controllers, control can be performed locally and remotely from two locations.	 * Set "Main" and "Sub" remote controllers. (Example of 1 : 1 system)	 * When using wired and wireless 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 SLZ) • 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.	 (Example of 1 : 1 system x 2)	 (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	 (Example of 1 : 1 system x 2)	 (Example of 1 : 1 system x 2)	• 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.	 (Example of 1 : 1 system)	 (Example of Simultaneous Twin)	• 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)

Category		Icon		M SERIES									
		Combination	Indoor unit	MSZ-RZ25/35/50VU	MSZ-RW25/35/50VG	MSZ-LN18/25/35/50/60VG2(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	
			Outdoor unit	MUZ-RZ	MUZ-RW	MUZ-LN	MUZ-FT	MUZ-AY	MUZ-AY	MUZ-AP	MUZ-EF	MUZ-BT	
Technology	DC Inverter			●	●	●	●	●	●	●	●	●	
	Joint Lap DC Motor			●	●	●	●	●	●	●	●	●	
	Reluctance DC Rotary Compressor												
	Heating Caulking (Compressor)			●	●	●	●	●	●	●	●	●	
	DC Fan Motor			●	●	●	●	●	●	●	●	●	
	PAM (Pulse Amplitude Modulation)			●	●	●	●	●	●	●	●	●	
	Power Receiver and Twin LEV Control												
	Grooved Piping			●	●	●	●	●	●	●	●	●	
Functions	i-see Sensor	Felt Temperature Control (3D i-see Sensor)		●	●	●							
		AREA Temperature Monitor		●	●	●							
	Energy Saving	Econo Cool Energy-saving Feature		●	●	●	●	●	●	●	●	●	
		Standby Power Consumption Cut		●	●	●	●	●	●	●	●	●	
	Air Quality	Plasma Quad Plus		●	●	●		●*1	●*1				
		Plasma Quad											
		Dual Barrier Coating		●	●	●		●	●				
		Dual Barrier Material		●	●								
		Silver-ionized Air Purifier Filter				Opt	●	Opt	Opt	Opt	●	Opt	
		V Blocking Filter		Opt	Opt	Opt	●	●*2	●*2	●	●	●	
		Air Purifying Filter					●	●	●	●	●	●	
		Self Clean Mode						●	●				
	Air Distribution	Double Vane		●	●	●							
		Horizontal Vane		●	●	●	●	●	●	●	●	●	
		Vertical Vane		●	●	●	●		●	●			
		High Ceiling Mode											
		Auto Fan Speed Mode		●	●	●	●	●	●	●	●	●	
		Circulator Mode		●*3	●*3	●*3	●*3		●*3				
	Convenience	On/Off Operation Timer		●	●	●	●	●	●	●	●	●	
		“i save” Mode		●	●	●	●	●	●	●	●	●	
		Auto Changeover		●	●	●	●	●	●	●	●	●	
		Auto Restart		●	●	●	●	●	●	●	●	●	
		Low-temperature Cooling		●	●	●	●	●	●	●	●	●	
		10°C Heating		●	●	●	●	●	●	●		●	
		Low-noise Operation (Outdoor Unit)		●									
		Night Mode			●	●	●	●	●	●		●	
		Ampere Limit Adjustment											
		Operation Lock (Indoor)		●	●	●	●	●	●	●		●	
		Operation Lock (Outdoor)											
		Built-in Weekly Timer Function		●	●	●	●	●	●	●	●		
		Drive Mode Selector		●	●								
	System Control	PAR-41MAA Control *5		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		PAR-CT01MAA Control *5		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		PAC-YT52CRA Control *5		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		Centralised On/Off Control *5		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		System Group Control *5		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		M-NET Connection *5		Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		Wi-Fi Interface *6		●	●	●	●	●	●	●	●	●	
		Energy Consumption Monitoring through MELCloud											
	Installation	Cleaning-free Pipe Reuse		●	●	●	●	●	●	●	●	●	
		Wiring/Piping Correction Function											
		Drain Pump											
		Flare Connection		●	●	●	●	●	●	●	●	●	
	Maintenance	Self-Diagnosis Function (Check Code Display)		●	●	●	●	●	●	●	●	●	
		Failure Recall Function		●	●	●	●	●	●	●	●	●	

*1 Only VGKP model.
*2 Equipped as standard for VGK model.
*3 Available only for Scandinavian model.
*4 When connected to MXZ outdoor units, the outdoor operating sound will not change.
*5 Please refer to “System Control” on pages for details.
*6 Only VGK model.

• 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.

	M SERIES					
	MSZ-HR25/35/42/50/60/71VF	MSZ-DW25/35/50VF	MFZ-KT25/35/50/60VG	MFZ-KW25/35/50/60VG	MLZ-KP25/35/50VG	MLZ-KY20VG
	MUZ-HR	MUZ-DW	SUZ-M	MUFZ-KW	SUZ-M	Multi
	●	●	●	●	●	●
	●	●	●	●	●	●
	●	●	●	●	●	●
	●	●	●	●	●	●
	●	●	●	●	●	●
	●	●	●	●	●	●
	●	●	●	●	●	●
			●	●	●	●
	Opt	Opt	Opt	Opt	Opt	Opt
	Opt	Opt	●	●	Opt	●
	●	●	●	●	●	●
	●	●	●	●	●	●
					●	●
					●	●
	●	●	●	●	●	●
	●	●	●	●	●	●
			●	●	●	●
			●*4	●*4	●*4	●*4
	●	●	●	●	●	●
	●	●	●	●	●	●
			●	●	●	●
					●	●
			●	●	●	●
	Opt	Opt	Opt	Opt	Opt	Opt
	Opt	Opt	Opt	Opt	Opt	Opt
	Opt	Opt	Opt	Opt	Opt	Opt
	Opt	Opt	Opt	Opt	Opt	Opt
	Opt	Opt	Opt	Opt	Opt	Opt
	Opt	Opt	Opt	Opt	Opt	Opt
	●	●	Opt	Opt	Opt	Opt
	●	●	●	●	●	●
					●	●
					●	●
	●	●	●	●	●	●
	●	●	●	●	●	●
	●	●	●	●	●	●

FUNCTION LIST (2)

Category		Icon	Combination		S series					P series			
				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-M35/50/60/71/100/125/140EA2		
				Outdoor unit	SUZ-M	PUZ-ZM	SUZ-M	PUZ-ZM	SUZ-M	PUZ-ZM	PUZ-ZM	SUZ-M	PUZ-M
Function merit-up		3D Total Flow								●	●		●
		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			●	●	●		●	●	●	●	●
		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			●	●	●		●	●	●	●	●
Functions	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 Distribution	Horizontal Vane			●	●				●	●	●	●
		Vertical Vane											
		High Ceiling Mode			●	●				●	●	●	●
		Low Ceiling Mode								●	●	●	●
		Auto Fan Speed Mode			●	●	●		●	●	●	●	●
	Convenience	On/off Operation Timer			●	●	●		●	●	●	●	●
		Auto Changeover			●	●	●		●	●	●	●	●
		Auto Restart			●	●	●		●	●	●	●	●
		Low-temperature Cooling			●	●	●		●	●	●	●	●
		Low-noise Operation (Outdoor Unit)				●				●	●		●
		Ampere Limit Adjustment				60-140V				60-140V	60-140V		
		Operation Lock											
		Rotation, Back-up and 2nd Stage Cut-in Functions				●				●	●		●
		Dual Set Point *2				●				●	●		●
	System Control	PAR-41MAA Control *3			Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt
		PAR-CT01MAA Control *3			Opt	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
		System Group Control *3			Opt	Opt	Opt		Opt	●	●	Opt	●
		M-NET Connection *3			Opt		Opt		Opt	Opt	Opt	Opt	Opt
		COMPO				71-140				71-250	71-250		●
	Installation	Cleaning-free Pipe Reuse			●	●	●		●	●	●	●	●
		Reuse of Existing Wiring								Opt	Opt		Opt
		Wiring/Piping Correction Function											
		Drain Pump			●	●	Opt			●*4	●*4	●*4	●*4
		Pump Down Switch								●	●		●
		Flare Connection			●	●	●		●	●	●	●	●
	Maintenance	Self-Diagnosis Function (Check Code Display)			●	●	●		●	●	●	●	●
		Failure Recall Function			●	●	●		●	●	●	●	●

*1 SLZ-M15 can be connected with R32 MXZ only.
*2 This function is only available with PAR-41MAA, PAC-YT52CRA, PAR-SL101A-E.
*3 Please refer to “System Control” on pages for details.
*4 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	Combination		P SERIES								
				Indoor unit	PEAD-M35/50/60/71/100/125/140JA(L)2			PEA-M200/250LA2		PKA-M35/50LA(L)2		PKA-M60/71/100KA(L)2	
				Outdoor unit	PUZ-ZM	PUZ-M	SUZ-M	PUZ-ZM	PUZ-M	PUZ-ZM	PUZ-M	PUZ-ZM	PUZ-M
Function merit-up		3D Total Flow											
		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			●	●	●	●	●	●	●	●	●
		Joint Lap DC Motor			35-71	100	●			35-71	100	60/71	100
		Magnetic Flux Vector Sine Wave Drive			●	●		●	●	●	●	●	●
		Reluctance DC Rotary Compressor			35-71	100-140	●			35-71	●	60/71	100-140
		Highly Efficient DC Scroll Compressor			100-250	200/250		●	●	100-200		100-250	200/250
		Heating Caulking (Compressor)			35-71	100	●			35-71		60/71	100
		DC Fan Motor			●	●	●	●	●	●	●	●	●
		Vector-Wave Eco Inverter			●	●		●	●	●	●	●	●
		PAM (Pulse Amplitude Modulation)			35-140	100-140V	●			35-140	100V-140V	60-140	100-140V
		Power Receiver and Twin LEV Control			35-250	100-250		●	●	35-200	100-140	60-250	100-250
		Grooved Piping			●	●	●	●	●	●	●	●	●
Functions	i-see Sensor	Felt Temperature Control (3D i-see Sensor)											
		AREA Temperature Monitor											
	Energy Saving	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 Distribution	Horizontal Vane								●	●	●	●
		Vertical Vane											
		High Ceiling Mode											
		Low Ceiling Mode											
		Auto Fan Speed Mode			●	●	●	●	●	●	●	●	●
	Convenience	On/off Operation Timer			●	●	●	●	●	●	●	●	●
		Auto Changeover			●	●	●	●	●	●	●	●	●
		Auto Restart			●	●	●	●	●	●	●	●	●
		Low-temperature Cooling			●	●	●	●	●	●	●	●	●
		Low-noise Operation (Outdoor Unit)			●	●		●	●	●	●	●	●
		Ampere Limit Adjustment			60-140V					71-140V		60-140V	
		Operation Lock											
		Rotation, Back-up and 2nd Stage Cut-in Functions			●	●		●	●	●	●	●	●
		Dual Set Point *1			●	●		●	●	●	●	●	●
	System Control	PAR-41MAA Control *2			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		PAR-CT01MAA Control *2			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		PAC-YT52CRA Control *2			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		Centraliesd On/Off Control *2			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		System Group Control *2			●	●	Opt	●	●	Opt	Opt	Opt	Opt
		M-NET Connection *2			Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		COMPO			71-250	●		●	●	71-200	●	71-250	●
	Installation	Cleaning-free Pipe Reuse			●	●	●	●	●	●	●	●	●
		Reuse of Existing Wiring			Opt	Opt				Opt	Opt	Opt	Opt
		Wiring/Piping Correction Function											
		Drain Pump			●*3	●*3	●*3	Opt	Opt	Opt	Opt	Opt	Opt
		Pump Down Switch			●	●		●	●	●	●	●	●
		Flare Connection			●	●	●	●	●	●	●	●	●
	Maintenance	Self-Diagnosis Function (Check Code Display)			●	●	●	●	●	●	●	●	●
		Failure Recall Function			●	●	●	●	●	●	●	●	●

*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-M35/50/60/71/100/125/140KA2			PCA-M71HA2	PSA-M71/100/125/140KA		
	PUZ-ZM	PUZ-M	SUZ-M	PUZ-ZM	PUZ-ZM	PUZ-M	SUZ-M
	●	●		●			
	●	●		●	●	●	
	●	●		●	●	●	
	●	●	●	●	●	●	●
	●	●		●	●	●	
	●			●	●		
	●	●		●	●	●	
	●	●		●	●	●	
	●	●		●	●	●	
	●	●	●	●	●	●	●
	35-71	100	●	71	71	100	●
	●	●		●	●	●	
	35-71	100-140	●	71	71	100-140	●
	100-250	200/250		100-250	200-250	200/250	
	35-71	100	●	71	71	100	●
	●	●	●	●	●	●	●
	●	●		●	●	●	
	35-140	100-140V	●	71-140	71-140	100-140V	●
	35-250	100-250		71-250	71-250	100-250	
	●	●	●	●	●	●	●
	Opt	Opt		Opt	Opt	Opt	
	●	●	●		●	●	●
	●	●	●				
	●	●	●	●			
	Opt	Opt	Opt				
				●			
	●	●	●		●	●	●
	●	●	●	●	●	●	●
	●	●	●				
					●	●	●
	●	●	●				
	●	●	●				
	●	●	●		●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●	●	●	●	●	●
	●	●		●	●	●	
	60-140V				71-140V		
	●	●		●	●	●	●
	●	●					
	Opt	Opt	Opt	Opt	●	●	●
	Opt	Opt	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.

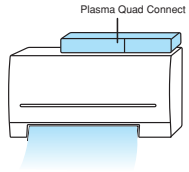
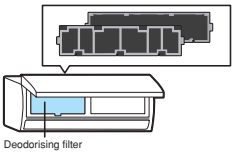
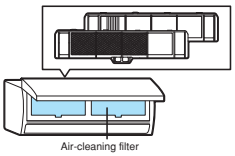
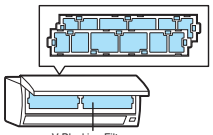
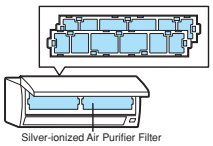
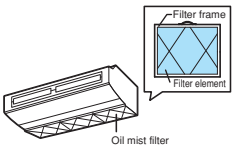
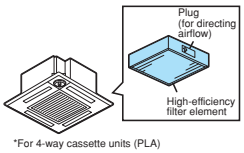
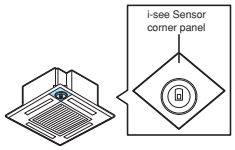
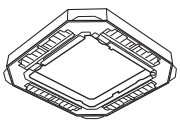
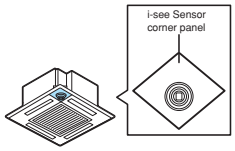
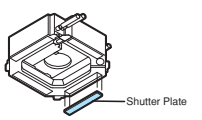
FUNCTION LIST (4)

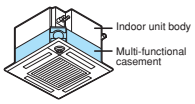
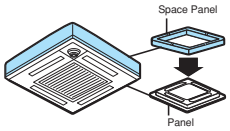
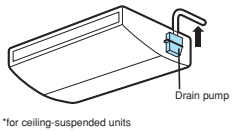
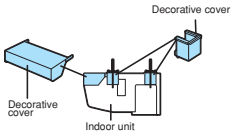
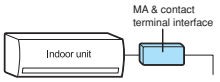
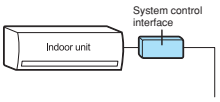
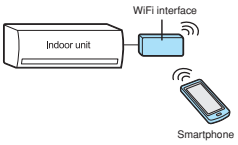
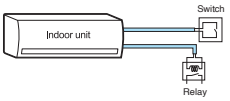
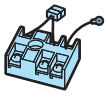
Category		Icon	MXZ SERIES										PXZ SERIES	
		Series	Lo-std		Std			Std			Hyper Heating		PXZ-VG	
		Outdoor unit	MXZ-VF2		MXZ-VF4			MXZ-VF2			MXZ-VFHZ2		PXZ-VG	
			2HA	3HA	2F	3F	4F	4F	5F	6F	2F	4F	4F75	5F85
Technology	DC Inverter		●	●	●	●	●	●	●	●	●	●	●	●
	Joiint Lap DC Motor		●	●	●	●	●	●	●		●		●	●
	Magnetic Flux Vector Sine Wave Drive													
	Heating Caulking (Compressor)		●	●	●	●	●	●	●	●	●	●	●	●
	DC Fan Motor		●	●	●	●	●	●	●	●	●	●	●	●
	Vector-Wave Eco Inverter													
	PAM (Pulse Amplitude Modulation)		●	●	●	●	●	●	●	●	●	●	●	●
	Power Receiver and Twin LEV Control			●		●	●						●	
	Grooved Piping		●	●	●	●	●	●	●	●	●	●	●	●
Functions	i-see Sensor	Felt Temperature Control (3D i-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 Distribution	Horizontal Vane												
		Vertical vane												
		High Ceiling Mode												
		Auto Fan Speed Mode												
	Convenience	On/off Operation Timer												
		Auto Changeover	●	●	●	●	●	●	●	●	●	●	●	●
		Auto Restart	●	●	●	●	●	●	●	●	●	●	●	●
		Low- temperature Cooling	●	●	●	●	●	●	●	●	●	●	●	●
		10°C Heating			●*1	●*1	●*1	●*1	●*1	●*1	●*1	●*1	●	●
		Low-noise Operation (Outdoor)	●	●	●	●	●	●	●	●	●	●	●	●
		Night Mode												
		Ampere Linit Adjustment								●	●	●		
		Operation Lock (Indoor)												
		Operation Lock (Outdoor)	●	●	●	●	●	●	●	●	●	●	●	●
		Built-in Weekly Timer Function												
		Rotation, Back-up abd 2nd Stage Cut-in Functions												
		Dual Set Point												
	System Control	PAR-41MAA Control	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		PAR-CT01MAA Cotrol	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
		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	Opt	Opt	Opt	Opt	Opt	Opt
		M-NET Connection											Opt	Opt
		Wi-Fi Interface											Opt	Opt
		Energy/Consumption Monitaring trouth MEL Cloud	●	●	●	●	●	●	●	●	●	●	●	●
		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 Function	●	●	●	●	●	●	●	●	●	●	●	●
		Drain Pump												
		Pump Down Switch		●		●	●							
		Flare Connection	●	●	●	●	●	●	●	●	●	●	●	●
	Maintenance	Self-Diagnosis Function (Check Code Display)	●	●	●	●	●	●	●	●	●	●	●	●
		Failure Recall Function	●	●	●	●	●	●	●	●	●	●	●	●

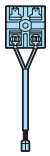
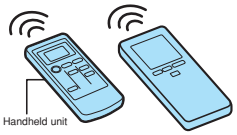
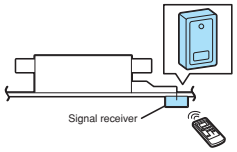
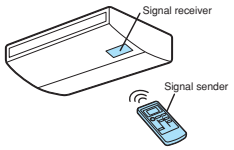
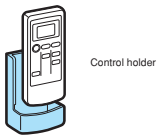
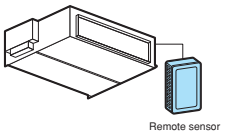
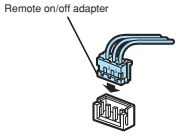
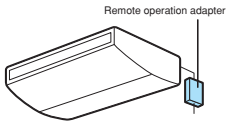
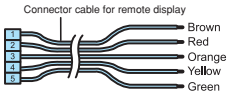
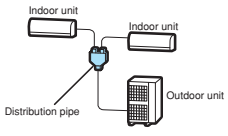
*1 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.
*2 For the possible connectivity of MXZ outdoor units and indoor units, please refer to the list on page 120 for details.
*3 Please refer to “System Control” on pages for details.

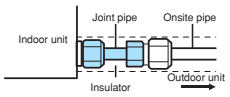
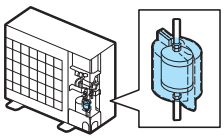
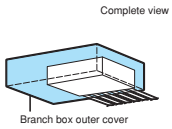
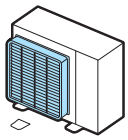
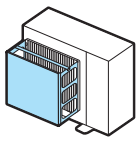
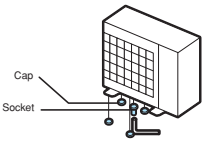
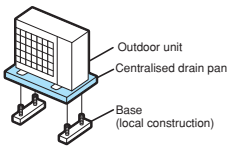
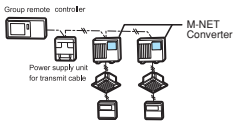
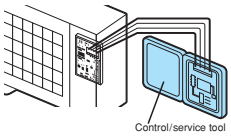
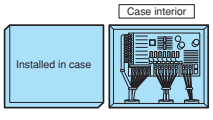
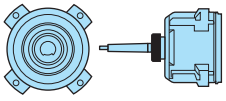
- The figures listed in the table are “only when combined with an outdoor unit with the appropriate capacity range”.
- Opt: Separate parts must be purchased.

Major Optional Parts

Part Name	Description
Plasma Quad Connect High performance air purifying device that effectively removes various kinds of air pollutants and is even installable on the existing indoor unit.	
Deodorising Filter Captures small foul-smelling substances in the air.	
Air-cleaning Filter Removes fine dust particles from the air by means of static electricity.	
V Blocking Filter Inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen.	
Silver-ionized Air Purifier Filter Captures the bacteria, pollen and other allergens in the air and neutralises them.	
Oil Mist Filter Element Filter element (12 pieces) that blocks the oil mist for ceiling-suspended models used in professional kitchens.	
High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air.	
3D i-see Sensor Corner Panel for SLZ Corner panel holding the 3D i-see Sensor.	
3D Total Flow for PLA Casement equipped with horizontal louver.	
3D i-see Sensor Corner Panel for PLA Corner panel holding the 3D i-see Sensor.	
Shutter Plate Plate for blocking an air outlet of the 4-way cassette (PLA) indoor unit.	

Part Name	Description
Multi-functional Casement Casement for fresh-air intake and attaching the high-efficiency filter element (optional).	
Fresh-air Intake Duct Flange Flange attachment for adding a duct to take in fresh air from outside.	
Space Panel Decorative cover for the installation when the ceiling height is low.	
Drain Pump Pumps drain water to a point higher than that where the unit is installed.	
Decorative Cover To be attached to the upper section of ceiling-suspended models for professional kitchen use. Helps prevent dust accumulation.	
MA Interface Interface for connecting with the PAR-41MAA remote controller and PAC-YT52CRA.	
System Control Interface Interface to connect with M-NET controllers.	
Wi-Fi Interface Interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.	
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.	
Power Supply Terminal Kit Terminal bed to change the power supply from outdoor power supply to separate indoor/outdoor power supplies.	
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
MA Touch Remote Controller Remote controller with the full color touch display. Smartphone/Tablet App is available for setting, customize and control.	
Simple Wired Remote Controller Remote controller with liquid-crystal display, and backlight function for operation in dark location.	
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.	
Wireless Remote Controller Signal Sender Handheld unit for sending operation signals to the indoor unit.	
Wireless Remote Controller Signal Receiver Receives operation signals from the wireless remote controller handheld unit.	
Wireless Remote Controller Kit (Sender & Receiver) Remote controller handheld unit (signal sender) and receiver (signal receiver) for ceiling-suspended units.	
Control Holder Holder for storing the remote controller.	
Remote Sensor Sensor to detect the room temperature at remote positions.	
Remote On/Off Adapter Connector for receiving signals from the local system to control the on/off function.	
Remote Operation Adapter Adapter to display the operation status and control on/off function from a distance.	
Connector Cable for Remote Display Connector used to display the operation status and control on/off function from a distance.	
Distribution Pipe Branch pipe for P Series simultaneous multi-system use, or to connect two branch boxes for PUMY.	 *P Series with 2 indoor units

Part Name	Description
Joint Pipe Part for connecting refrigerant pipes of different diametres.	
Liquid Refrigerant Dryer Removes water and minute particles from refrigerant pipes.	
Branch Box Outer Cover Casement for branch boxes.	
Air Outlet Guide Changes the direction of air being exhausted from the outdoor unit.	
Air Protection Guide Protects the outdoor unit from the wind.	
Drain Socket A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe.	
Centralised Drain Pan Catches drain water generated by the outdoor unit.	
M-NET Converter Used to connect P Series A-control models to M-NET controllers.	
Control/Service Tool Monitoring tool to display operation and self-diagnosis data.	
Step Interface Interface for adjusting the capacity of inverter-equipped outdoor units.	
High-static Fan Motor Static pressure enhanced up to +30pa.	

Optional Parts List <Indoor>

Indoor Unit			Option: Filter: Silver-ionized Air Purifier Filter: MAC-2360 FT	MAC-2370 FT	MAC-2380 FT	MAC-2390 FT	Filter: V Blocking Filter: MAC-2450 FT	MAC-2460 FT	MAC-2470 FT	MAC-2490 FT	Filter: Deodorising Filter: MAC-3000 FT-E	MAC-3010 FT-E	Filter: Plasma Quad Connect: MAC-100 FT-E	Softdry Cloth: MAC-1001 CL-E	System Control Interface: MAC-334 IF-E	MA Interface: MAC-497 IF-E	Wi-Fi Interface: MAC-587 IF-E	Connector Cable: MAC-1702 RA-E	MAC-1710 RA-E
M SERIES	Wall-mounted	MSZ-RZ25VU								●		●			●	●		●	●
		MSZ-RZ35VU								●		●			●	●		●	●
		MSZ-RZ50VU								●		●			●	●		●	●
		MSZ-RW25VG								●		●			●	●		●	●
		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-LN60VG2(W)(V)(R)(B)								●		●		●	●	●		●	●
		MSZ-FT25VG							●				●		●	●	●*3	●	●
		MSZ-FT35VG							●				●		●	●	●*3	●	●
		MSZ-FT50VG							●				●		●	●	●*3	●	●
		MSZ-AY15VGK(P)							●*1				●*2		●	●	●*3	●	●
		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		●	●	●*3	●	●
		MSZ-AP60VG						●					●		●	●	●*3	●	●
		MSZ-AP71VG						●					●		●	●	●*3	●	●
		MSZ-EF18VG(W)(B)(S)							●				●	●	●	●	●*3	●	●
		MSZ-EF22VG(W)(B)(S)							●				●	●	●	●	●*3	●	●
		MSZ-EF25VG(W)(B)(S)							●				●	●	●	●	●*3	●	●
		MSZ-EF35VG(W)(B)(S)							●				●	●	●	●	●*3	●	●
		MSZ-EF42VG(W)(B)(S)							●				●	●	●	●	●*3	●	●
		MSZ-EF50VG(W)(B)(S)							●				●	●	●	●	●*3	●	●
		MSZ-BT20VG							●				●		●	●	●*3	●	●
		MSZ-BT25VG							●				●		●	●	●*3	●	●
		MSZ-BT35VG							●				●		●	●	●*3	●	●
		MSZ-BT50VG							●				●		●	●	●*3	●	●
		MSZ-HR25VF							●				●		●	●	●*3	●	●
		MSZ-HR35VF							●				●		●	●	●*3	●	●
		MSZ-HR42VF							●				●		●	●	●*3	●	●
		MSZ-HR50VF							●				●		●	●	●*3	●	●
		MSZ-HR60VF							●				●		●	●	●*3	●	●
		MSZ-HR71VF							●				●		●	●	●*3	●	●
		MSZ-DW25VF							●				●		●	●	●*3	●	●
		MSZ-DW35VF							●				●		●	●	●*3	●	●
		MSZ-DW50VF							●				●		●	●	●*3	●	●
		MSY-TP35VF							●				●		●	●	●*3	●	●
		MSY-TP50VF							●				●		●	●	●*3	●	●
		MSZ-FH25VE2			●						●				●	●	●*3	●	●
		MSZ-FH35VE2			●						●				●	●	●*3	●	●
		MSZ-FH50VE2			●						●				●	●	●*3	●	●
		MSZ-SF15VA											●		●	●	●*3		
		MSZ-SF20VA											●		●	●	●*3		
		MSZ-SF25VE3		●									●		●	●	●*3		
		MSZ-SF35VE3		●									●		●	●	●*3		
		MSZ-SF42VE3		●									●		●	●	●*3		
		MSZ-SF50VE3		●									●		●	●	●*3		
		MSZ-GF60VE2	●					●					●		●	●	●*3		
		MSZ-GF71VE2	●					●					●		●	●	●*3		
		MSZ-WN25VA		●									●		●	●	●*3	●	●
		MSZ-WN35VA		●									●		●	●	●*3	●	●
		MSZ-DM25VA		●									●		●	●	●*3	●	●
		MSZ-DM35VA		●									●		●	●	●*3	●	●
		MSZ-HJ25VA		●														●	●
		MSZ-HJ35VA		●														●	●
		MSZ-HJ50VA		●														●	●
		MSZ-HJ60VA		●														●	●
		MSZ-HJ71VA		●														●	●
	Floor-standing	MFZ-KT25VG		●					●						●	●	●*3	●	●
		MFZ-KT35VG		●					●						●	●	●*3	●	●
		MFZ-KT50VG		●					●						●	●	●*3	●	●
		MFZ-KT60VG		●					●						●	●	●*3	●	●
		MFZ-KW25VG		●					●						●	●	●*3	●	●
		MFZ-KW35VG		●					●						●	●	●*3	●	●
		MFZ-KW50VG		●					●						●	●	●*3	●	●
		MFZ-KW60VG		●					●						●	●	●*3	●	●
	1-way cassette	MLZ-KP25VG		●					●						●	●	●*3	●	●
		MLZ-KP35VG		●					●						●	●	●*3	●	●
		MLZ-KP50VG		●					●						●	●	●*3	●	●
		MLZ-KY20VG		●					●						●	●	●*3	●	●

*1 Equipped as standard for VGK model.
*2 Plasma quad plus is equipped as standard for VGKP model.
*3 Outside attachment only.
*4 Either MAC-334IF-E or MAC-497IF-E is required. Up to two wired remote controllers can be connected at the same time.
*5 Either MAC-334IF-E or MAC-497IF-E is required. Only one wired remote controller can be connected.
*6 Available only for LN18/25/35/50/60VG2B/R/V.
*7 Available only for LN18/25/35/50/60VG2W.

Wired Remote Controller			Wireless Remote Controller	Controller Holder		
PAR-41MAA	PAR-CT01MAA	PAC-YT52CRA	MAC-SL100M-E	MAC-286RH-E	MAC-1200RC-E	MAC-1300RC-E
●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*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	●*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	●*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				●
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●*4	●*5	●*4				●
●*4	●*5	●*4				●
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●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*4	●*5	●*4			●	
●*4	●*5	●*4			●	
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●*4	●*5	●*4				●
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●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*4	●*5	●*4				●
●*4	●*5	●*4				●

Optional Parts List <Indoor>

Indoor Unit		Option / Filter																		
			Oil Mist Filter Element	Long Life Filter	High-efficiency Filter Element				V Blocking Filter							Filter Box				
			PAC-SG38KF-E	PAC-KE85LAF	PAC-SH59KF-E *10	PAC-SH88KF-E *11	PAC-SH89KF-E *12	PAC-SH90KF-E *13	PAC-SK53KF-E *4	PAC-SK54KF-E	PAC-SK55KF-E *5	PAC-SK56KF-E *6	PAC-SK57KF-E *7	MAC-2470FT-E	MAC-1416FT-E	PAC-KE92TB-E	PAC-KE93TB-E	PAC-KE94TB-E	PAC-KE95TB-E	PAC-KE250TB-F
S SERIES	4-way cassette	SLZ-M15FA2								●										
		SLZ-M25FA2								●										
		SLZ-M35FA2								●										
		SLZ-M50FA2								●										
		SLZ-M60FA2								●										
	Ceiling - concealed	SEZ-M25DA(L)2																		
		SEZ-M35DA(L)2																		
		SEZ-M50DA(L)2																		
		SEZ-M60DA(L)2																		
		SEZ-M71DA(L)2																		
	Concealed floor standing	SFZ-M25VA																		
		SFZ-M35VA																		
		SFZ-M50VA																		
		SFZ-M60VA																		
		SFZ-M71VA																		
P SERIES	4-way cassette	PLA-ZM35EA2			●				●											
		PLA-ZM50EA2			●				●											
		PLA-ZM60EA2			●				●											
		PLA-ZM71EA2			●				●											
		PLA-ZM100EA2			●				●											
		PLA-ZM125EA2			●				●											
		PLA-ZM140EA2			●				●											
		PLA-M35EA2			●				●											
		PLA-M50EA2			●				●											
		PLA-M60EA2			●				●											
		PLA-M71EA2			●				●											
		PLA-M100EA2			●				●											
		PLA-M125EA2			●				●											
		PLA-M140EA2			●				●											
	Ceiling - concealed	PEAD-M35JA(L)2														●				
		PEAD-M50JA(L)2														●				
		PEAD-M60JA(L)2															●			
		PEAD-M71JA(L)2															●			
		PEAD-M100JA(L)2																●		
		PEAD-M125JA(L)2																●		
		PEAD-M140JA(L)2																	●	
		PEA-M200LA2		●																●
		PEA-M250LA2		●																●
	Wall - mounted	PKA-M35LA(L)2												●						
		PKA-M50LA(L)2												●						
		PKA-M60KA(L)2													●					
		PKA-M71KA(L)2													●					
		PKA-M100KA(L)2													●					
	Ceiling - suspended	PCA-M35KA2				●					●									
		PCA-M50KA2				●					●									
		PCA-M60KA2					●					●								
		PCA-M71KA2					●					●								
		PCA-M100KA2						●					●							
		PCA-M125KA2						●					●							
		PCA-M140KA2						●					●							
		PCA-M71HA2	●																	
	Floor - standing	PSA-M71KA																		
		PSA-M100KA																		
		PSA-M125KA																		
		PSA-M140KA																		

*1 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)
*2 Plasma Quad Connect(PAC-SK51FT-E) 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-SH59KF-E).
*3 Insulation kit(PAC-SK36HK-E) cannot be used with 3D Total Flow unit(PLP-U160ELR-E), Plasma Quad Connect(PAC-SK51FT-E), Auto elevation panel(PLP-6EAJ, PLP-6EAJE), Shutter Plate(PAC-SJ37SP-E), Multi functional casement(PAC-SJ41TM-E) and High-efficiency filter element(PAC-SH59KF-E)
*4 V Blocking Filter(PAC-SK53KF-E) cannot be used with High-efficiency filter element(PAC-SH59KF-E).
*5 V Blocking Filter(PAC-SK55KF-E) cannot be used with High-efficiency filter element(PAC-SH88KF-E).
*6 V Blocking Filter(PAC-SK56KF-E) cannot be used with High-efficiency filter element(PAC-SH89KF-E).
*7 V Blocking Filter(PAC-SK57KF-E) cannot be used with High-efficiency filter element(PAC-SH90KF-E).
*8 Shutter Plate(PAC-SJ37SP-E) cannot be used with 3D Total Flow unit(PLP-U160ELR-E) and Insulation kit(PAC-SK36HK-E).
*9 Multi functional casement(PAC-SJ41TM-E) cannot be used with 3D Total Flow unit(PLP-U160ELR-E), Plasma Quad Connect(PAC-SK51FT-E) and Insulation kit(PAC-SK36HK-E).

	Plasma Quad Connect													3D i-see Sensor Corner Panel		3D Total Flow unit	Shutter Plate	Insulation kit	Multi-functional Casement
	Plasma Quad Connect					Attachment for Ducted			Box for Ducted										
	MAC-100 FT-E	PAC-SK51 FT-E *2	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	PLP-U160 ELR-E *1	PAC-SJ37 SP-E *8	PAC-SK36 HK-E *3	PAC-SJ41 TM-E *9
			●	●	●									●					
			●	●	●									●					
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			●	●	●									●					
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	●																		

*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-SH89KF-E) cannot be used with V Blocking Filter(PAC-SH89KF-E).
*13 High-efficiency filter element(PAC-SH90KF-E) cannot be used with V Blocking Filter(PAC-SH90KF-E).

Optional Parts List <Indoor>

		Option / Indoor Unit	Fresh-air Intake Duct Flange		Space Panel	Drain Pump						Decorative Cover	System Control Interface	Wi-Fi Interface
			PAC-SH65 OF-E	PAC-SF28 OF-E	PAC-SJ65 AS-E	PAC-SL48 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
S SERIES	4-way cassette	SLZ-M15FA2											●	●
		SLZ-M25FA2											●	●
		SLZ-M35FA2											●	●
		SLZ-M50FA2											●	●
		SLZ-M60FA2											●	●
	Ceiling - concealed	SEZ-M25DA(L)2								●			●	●
		SEZ-M35DA(L)2								●			●	●
		SEZ-M50DA(L)2								●			●	●
		SEZ-M60DA(L)2								●			●	●
		SEZ-M71DA(L)2								●			●	●
	Concealed floor standing	SFZ-M25VA											●	●
		SFZ-M35VA											●	●
		SFZ-M50VA											●	●
		SFZ-M60VA											●	●
		SFZ-M71VA											●	●
P SERIES	4-way cassette	PLA-ZM35EA2	●		●								●*1	●
		PLA-ZM50EA2	●		●								●*1	●
		PLA-ZM60EA2	●		●								●*1	●
		PLA-ZM71EA2	●		●								●*1	●
		PLA-ZM100EA2	●		●								●*1	●
		PLA-ZM125EA2	●		●								●*1	●
		PLA-ZM140EA2	●		●								●*1	●
		PLA-M35EA2	●		●								●*1	●
		PLA-M50EA2	●		●								●*1	●
		PLA-M60EA2	●		●								●*1	●
		PLA-M71EA2	●		●								●*1	●
		PLA-M100EA2	●		●								●*1	●
		PLA-M125EA2	●		●								●	●
		PLA-M140EA2	●		●								●	●
	Ceiling - concealed	PEAD-M35JA(L)2											●*1	●
		PEAD-M50JA(L)2											●*1	●
		PEAD-M60JA(L)2											●*1	●
		PEAD-M71JA(L)2											●*1	●
		PEAD-M100JA(L)2											●*1	●
		PEAD-M125JA(L)2											●*1	●
		PEAD-M140JA(L)2											●*1	●
		PEA-M200LA2									●		●*1	●
		PEA-M250LA2									●		●*1	●
	Wall - mounted	PKA-M35LA(L)2				●							●*1	●
		PKA-M50LA(L)2				●							●*1	●
		PKA-M60KA(L)2				●							●*1	●
		PKA-M71KA(L)2				●							●*1	●
		PKA-M100KA(L)2				●							●*1	●
	Ceiling - suspended	PCA-M35KA2					●						●*1	●
		PCA-M50KA2					●						●*1	●
		PCA-M60KA2							●				●*1	●
		PCA-M71KA2						●					●*1	●
		PCA-M100KA2						●						●
		PCA-M125KA2						●						●
		PCA-M140KA2						●						●
		PCA-M71HA2		●								●		●
	Floor - standing	PSA-M71KA												●
		PSA-M100KA												●
		PSA-M125KA												●
		PSA-M140KA												●

*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.

Power Supply Terminal Kit					Wired Remote Controller				Wireless Remote Controller						Remote Sensor	Remote On/Off Adapter	Remote Operation Adapter	Connector Cable for Remote Display
					Controller			Terminal Block kit for PKA	Signal Sender		Signal Receiver			Controller Kit (Sender & Receiver)				
PAC-SK38HR-E	PAC-SG94HR-E	PAC-SG96HR-E	PAC-SG97HR-E	PAC-SJ39HR-E	PAR-41MAA	PAR-CT01MAA	PAC-YT52CRA	PAC-SH29TC-E	PAR-SL97A-E	PAR-SL101A-E	PAR-SA9CA-E	PAR-SF9FA	PAR-SE9FA-E	PAR-SL94B-E	PAC-SE41TS-E	PAC-SE55RA-E	PAC-SF40RM-E	PAC-SA88HA-E
					●	●	●		●	●*4		●			●	●	●*2	●
					●	●	●		●	●*4		●			●	●	●*2	●
					●	●	●		●	●*4		●			●	●	●*2	●
					●	●	●		●	●*4		●			●	●	●*2	●
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					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	●
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				●	●	●	●		●	●*4			●		●	●	●*2	●
				●	●	●	●		●	●*4			●		●	●	●*2	●
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				●	●	●	●		●	●*4			●		●	●	●*2	●
				●	●	●	●		●	●*4			●		●	●	●*2	●
				●	●	●	●		●	●*4			●		●	●	●*2	●
				●	●	●	●		●	●*4			●		●	●	●*2	●
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*4 Group control cannot be used.

Optional Parts List <Outdoor>

		Option	Distribution Pipe						Joint Pipe								Liquid Refrigerant Dryer		
			For Twin (50:50)		For Triple (33:33:33)		For Quadruple (25:25:25:25)		Unit ø6.35 --> Pipe ø9.52	Unit ø9.52 --> Pipe ø12.7	Unit ø15.88 --> Pipe ø19.05	Unit ø9.52 --> Pipe ø15.88	Unit ø6.35 --> Pipe ø9.52	Unit ø9.52 --> Pipe ø12.7	Unit ø12.7 --> Pipe ø9.52	Unit ø12.7 --> Pipe ø15.88	For Pipe ø6.35	For Pipe ø9.52	For Pipe ø12.7
	Outdoor Unit		MSDD-50TR-E	MSDD-50WR-E	MSDT-111R-E	MSDT-111R3-E	MSDF-111R-E	MSDF-111R2-E	PAC-SG72RJ-E	PAC-SG73RJ-E	PAC-SG75RJ-E	PAC-SG76RJ-E	PAC-493PI	MAC-A454JP-E	MAC-A455JP-E	MAC-A456JP-E	PAC-SG81DR-E	PAC-SG82DR-E	PAC-SG85DR-E
												Flare							
M SERIES	RZ Series	MUZ-RZ25VU																	
		MUZ-RZ25VUHZ																	
		MUZ-RZ35VU																	
		MUZ-RZ35VUHZ																	
		MUZ-RZ50VU																	
		MUZ-RZ50VUHZ																	
	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																	
		MUZ-FT35VGHZ																	
		MUZ-FT50VGHZ																	
	A Series	MUZ-AY15VG																	
		MUZ-AY20VG																	
		MUZ-AY25VG																	
		MUZ-AY25VGH																	
		MUZ-AY35VG																	
		MUZ-AY35VGH																	
		MUZ-AY42VG																	
		MUZ-AY42VGH																	
		MUZ-AY50VG																	
		MUZ-AY50VGH																	
		MUZ-AP60VG																	
		MUZ-AP71VG2																	
	E Series	MUZ-EF25VG																	
		MUZ-EF25VGH																	
		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																	
		MUZ-HR50VF																	
		MUZ-HR60VF																	
		MUZ-HR71VF																	
	DW Series	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																	
		MUZ-SF25VEH																	
		MUZ-SF35VE																	
		MUZ-SF35VEH																	
		MUZ-SF42VE																	
		MUZ-SF42VEH																	
		MUZ-SF50VE																	
		MUZ-SF50VEH																	
	G Series	MUZ-GF60VE																	
		MUZ-GF71VE																	
	W Series	MUZ-WN25VA																	
		MUZ-WN35VA																	
	D Series	MUZ-DM25VA																	
		MUZ-DM35VA																	
	H Series	MUZ-HJ25VA																	
		MUZ-HJ35VA																	
		MUZ-HJ50VA																	
		MUZ-HJ60VA																	
		MUZ-HJ71VA																	
	Compact floor	MUFZ-KW25VGHZ																	
		MUFZ-KW35VGHZ																	
		MUFZ-KW50VGHZ																	
		MUFZ-KW60VGHZ																	

	Air Outlet Guide									Air Protection Guide			Drain Socket			Freeze-prevention Heater (for Drain Pan)			Centralized Drain Pan			M-NET Adapter	M-NET Converter		Control/ Service Tool	Step Interface	Insulation for Accumulator		High Static Fan Motor
	MAC-890 SG-E	MAC-881 SG	MAC-882 SG	MAC-856 SG	MAC-886 SG-E	MAC-883 SG	PAC-SJ07 SG-E	PAC-SG59 SG-E	PAC-SH96 SG-E	PAC-SJ06 AG-E	PAC-SH63 AG-E	PAC-SH95 AG-E	PAC-SJ08 DS-E	PAC-SG60 DS-E	PAC-SG61 DS-E	MAC-643 BH-E	MAC-644 BH-E	MAC-646 BH-E	PAC-SG63 DP-E	PAC-SG64 DP-E	PAC-SH97 DP-E	PAC-IF01 MNT-E	PAC-SJ96 MA-E	PAC-SJ95 MA-E	PAC-SK52ST	PAC-IF012 B-E	MAC-892 INS-E	MAC-893 INS-E	PAC-SJ71 FM-E
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Optional Parts List <Outdoor>

Outdoor Unit		Option: Distribution Pipe — For Twin (50:50)				Distribution Pipe — For Triple (33:33:33)		Distribution Pipe — For Quadruple (25:25:25:25)		Branch Pipe/Header (Joint) — In case of using 2-branch boxes (Flare)		Branch Pipe/Header (Joint) — In case of using 2-branch boxes (Brazing)	Branch Pipe	Header		Joint Pipe — Unit ø15.88 --> Pipe ø19.05	Joint Pipe — Unit ø9.52 --> Pipe ø15.88 (Flare)		Joint Pipe — Unit ø6.35 --> Pipe ø9.52 (Flare)		Joint Pipe — Unit ø9.52 --> Pipe ø12.7 (Flare)		Joint Pipe — Unit ø12.7 --> Pipe ø9.52 (Flare)		Joint Pipe — Unit ø12.7 --> Pipe ø15.88 (Flare)		Liquid Refrigerant Dryer			Air Outlet Guide				
		MSDD-50TR-E	MSDD-50TR2-E	MSDD-50WR-E	MSDD-50WR2-E	MSDT-111R-E	MSDT-111R3-E	MSDF-1111R-E	MSDF-1111R2-E	MSDD-50AR-E	MSDD-50AR2-E	MSDD-50BR-E	CMY-Y62-G-E	CMY-Y64-G-E	CMY-Y68-G-E	PAC-SG75RJ-E	PAC-SG76RJ-E	PAC-SK90RJ-E	PAC-493PI	PAC-SG72RJ-E	PAC-SJ87RJ-E	MAC-A454JP-E	PAC-SG73RJ-E	PAC-SJ88RJ-E	MAC-A455JP-E	PAC-SK88RJ-E	MAC-A456JP-E	PAC-SK89RJ-E	PAC-SG81DR-E	PAC-SG82DR-E	PAC-SG85DR-E	MAC-890SG-E	MAC-881SG	MAC-882SG	MAC-856SG	MAC-886SG-E
S SERIES (R32)	SUZ-M25VA																															●				
	SUZ-M35VA																							●								●				
	SUZ-M50VA																																●			
	SUZ-M60VA																																			●
	SUZ-M71VA																																			●
P SERIES — Power Inverter (R32)	PUZ-ZM35VKA2																				●								●							
	PUZ-ZM50VKA2																				●			●					●							
	PUZ-ZM60VHA2																				●			●						●						
	PUZ-ZM71VHA2		●																					●						●						
	PUZ-ZM100VDA		●				●																	●						●						
	PUZ-ZM100YDA		●				●																	●						●						
	PUZ-ZM125VDA		●				●		●															●						●						
	PUZ-ZM125YDA		●				●		●															●						●						
	PUZ-ZM140VDA		●				●		●															●						●						
	PUZ-ZM140YDA		●				●		●															●						●						
	PUZ-ZM200YKA2				●		●		●															●						●						
	PUZ-ZM250YKA2				●		●		●																						●						
Standard Inverter (R32)	PUZ-M100VKA2		●																											●						
	PUZ-M125VKA2		●																											●						
	PUZ-M140VKA2		●				●																							●						
	PUZ-M100YKA2		●																											●						
	PUZ-M125YKA2		●																											●						
	PUZ-M140YKA2		●				●																							●						
	PUZ-M200YKA2				●		●		●																					●						
	PUZ-M250YKA2				●		●		●																						●						
MXZ SERIES (R32)	MXZ-2F33VF4																																●			
	MXZ-2F42VF4																																●			
	MXZ-2F53VF(H)4																					●											●			
	MXZ-2F53VFHZ2																					●														
	MXZ-3F54VF4																					●													●	
	MXZ-3F68VF4																●		●			●													●	
	MXZ-4F72VF4																●		●			●			●		●								●	
	MXZ-4F80VF4																●		●			●			●		●								●	
	MXZ-4F83VF2																●		●			●			●		●									
	MXZ-4F83VFHZ2																●		●			●			●		●									
	MXZ-5F102VF2																●		●			●			●		●									
	MXZ-6F120VF2																●		●			●			●		●									
	MXZ-2HA40VF2																																●			
	MXZ-2HA50VF2																																●			
	MXZ-3HA50VF2																																		●	
PUMY SERIES (R410A)	PUMY-SP112VKM2(-BS)									●		●	●	●	●																					
	PUMY-SP112YKM2(-BS)									●		●	●	●	●																					
	PUMY-SP125VKM2(-BS)									●		●	●	●	●																					
	PUMY-SP125YKM2(-BS)									●		●	●	●	●																					
	PUMY-SP140VKM2(-BS)									●		●	●	●	●																					
	PUMY-SP140YKM2(-BS)									●		●	●	●	●																					
	PUMY-P112VKM6(-BS)									●		●	●	●	●	●							●													
	PUMY-P112YKM5(-BS)									●		●	●	●	●	●							●													
	PUMY-P125VKM6(-BS)									●		●	●	●	●	●							●													
	PUMY-P125YKM5(-BS)									●		●	●	●	●	●							●													
	PUMY-P140VKM6(-BS)									●		●	●	●	●	●							●													
	PUMY-P140YKM5(-BS)									●		●	●	●	●	●							●													
	PUMY-P200YKM3(-BS)									●		●	●	●	●	●							●													
	PUMY-P250YBM2(-BS)									●		●	●	●	●																					
	PUMY-P300YBM2(-BS)									●		●	●	●	●																					
PUMY SERIES (R32)	PUMY-SM112VKM(-BS)										●	●	●	●	●			●			●		●		●		●									
	PUMY-SM112YKM(-BS)										●	●	●	●	●			●			●		●		●		●									
	PUMY-SM125VKM(-BS)										●	●	●	●	●			●			●		●		●		●									
	PUMY-SM125YKM(-BS)										●	●	●	●	●			●			●		●		●		●									
	PUMY-SM140VKM(-BS)										●	●	●	●	●			●			●		●		●		●									
	PUMY-SM140YKM(-BS)										●	●	●	●	●			●			●		●		●		●									
PXZ SERIES	PXZ-4F75VG																●		●			●			●		●								●	
	PXZ-5F85VG																●		●			●			●		●									

	Branch Box Outer Cover	Reactor Box	Different Diameter Joint								
			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 Diameter Joint								
		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)	●		●		●				●		●

Air Outlet Guide						Air Protection Guide					Drain Socket					Freeze-prevention Heater (for Drain Pan)							Centralized Drain Pan					M-NET Adapter	M-NET Converter				Control/Service Tool	Step Interface		Insulation for Accumlator		Connection Kit	High Static Fan Motor	Muffler	CONNECTOR FOR DRAIN HOSE HEATER
																																		1 PC board w/attachment kit							
MAC-883SG	PAC-SJ07SG-E	PAC-SG59SG-E	PAC-SH96SG-E	PAC-SK22SG-E	PAC-SL12SG-E	PAC-SJ06AG-E	PAC-SH63AG-E	PAC-SH95AG-E	PAC-SK21AG-E	PAC-SL13AG-E	PAC-SJ08DS-E	PAC-SG60DS-E	PAC-SG61DS-E	PAC-SK27DS-E	PAC-SL14DS-E	MAC-643BH-E	MAC-644BH-E	MAC-646BH-E	PAC-645BH-E	PAC-646BH-E	PAC-SJ10BH-E	PAC-SJ20BH-E	PAC-SG63DP-E	PAC-SG64DP-E	PAC-SH97DP-E	PAC-SJ83DP-E	PAC-SL15DP-E	PAC-IF01MNT-E	PAC-SK15MA-E	PAC-SJ96MA-E	PAC-SJ95MA-E	PAC-SL16MA-E	PAC-SK52ST	PAC-IF012B-E	PAC-(S)IF013B-E	MAC-892INS-E	MAC-893INS-E	PAC-LV11M-J	PAC-SJ71FM-E	MAC-001MF-E	MAC-062RA-E
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**Please connect the muffler to the gas piping within 3 meters from the piping connection port of the outdoor unit. Please attach this if you are concerned about refrigerant noise.

ø9.52-->ø15.88		ø9.52-->ø6.35
PAC-SK90RJ-E	PAC-SG76RJB-E	PAC-SK91RJ-E
●		●
●		●
	●	

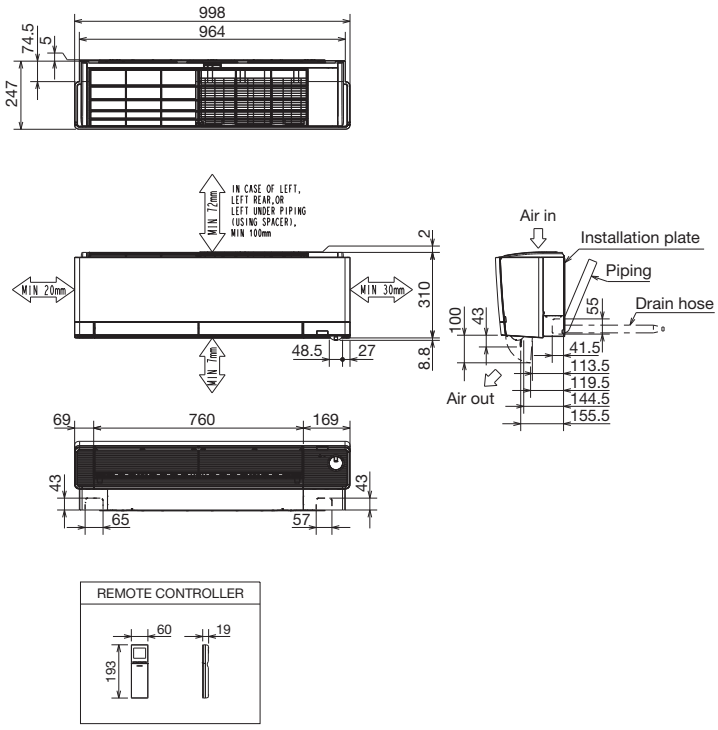
External Dimensions

M SERIES

Unit : mm

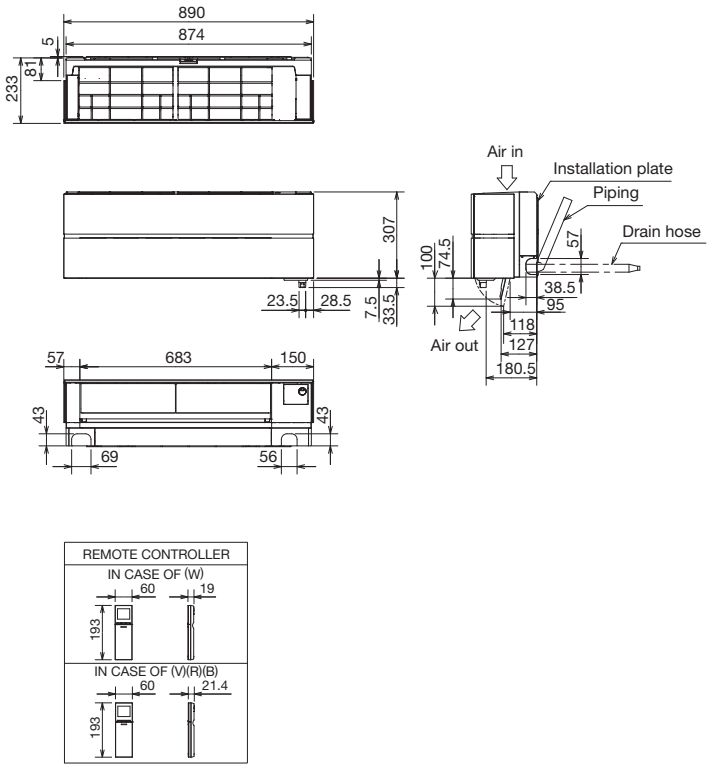
MSZ-RZ25VU MSZ-RZ35VU MSZ-RZ50VU
MSZ-RW25VG MSZ-RW35VG MSZ-RW50VG

INDOOR UNIT



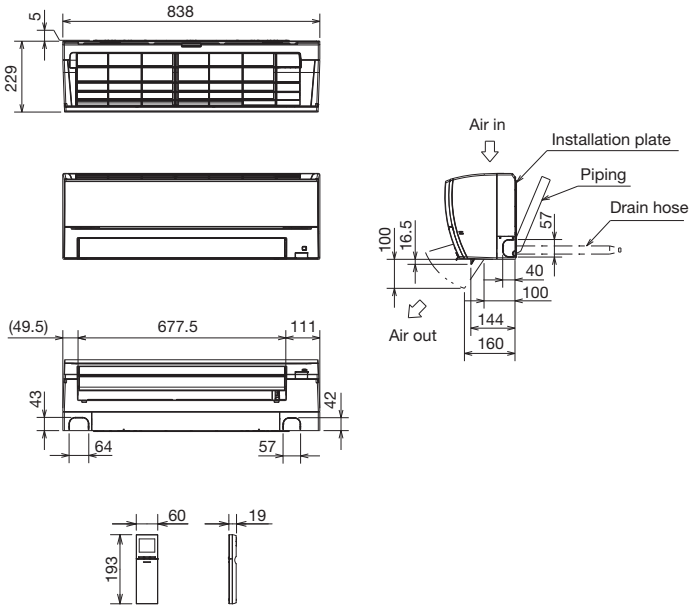
MSZ-LN25VG2(W)(V)(R)(B) MSZ-LN35VG2(W)(V)(R)(B)
MSZ-LN50VG2(W)(V)(R)(B) MSZ-LN60VG2(W)(V)(R)(B)

INDOOR UNIT



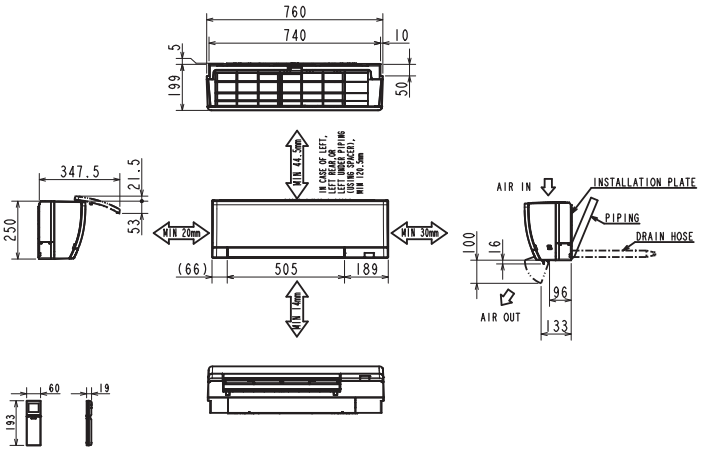
MSZ-FT25VG MSZ-FT35VG MSZ-FT50VG
MSZ-FT25VGK MSZ-FT35VGK MSZ-FT50VGK

INDOOR UNIT



MSZ-AY15VGK(P) MSZ-AY20VGK(P)

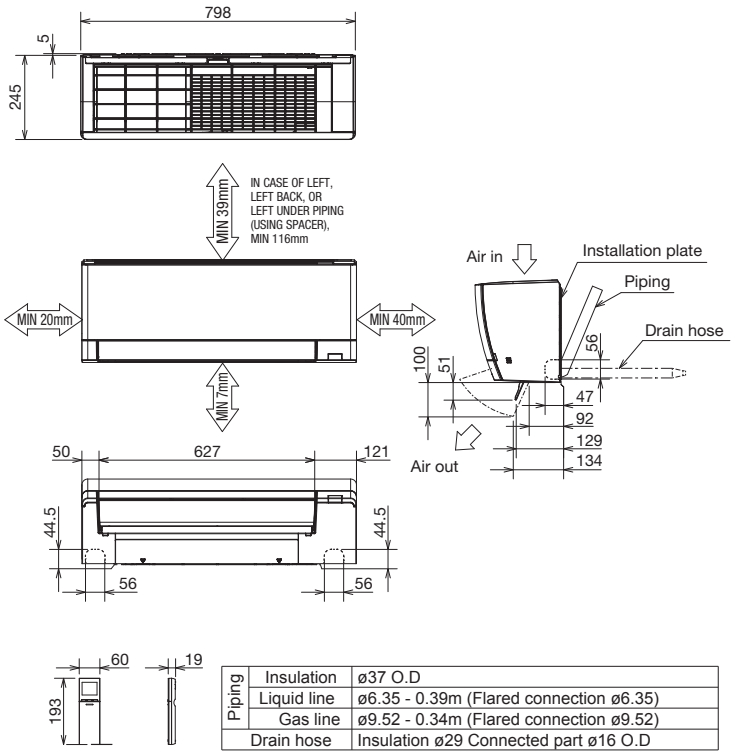
INDOOR UNIT



Unit : mm

MSZ-AY25VGK(P) MSZ-AY35VGK(P) MSZ-AY42VGK(P)
MSZ-AY50VGK(P)

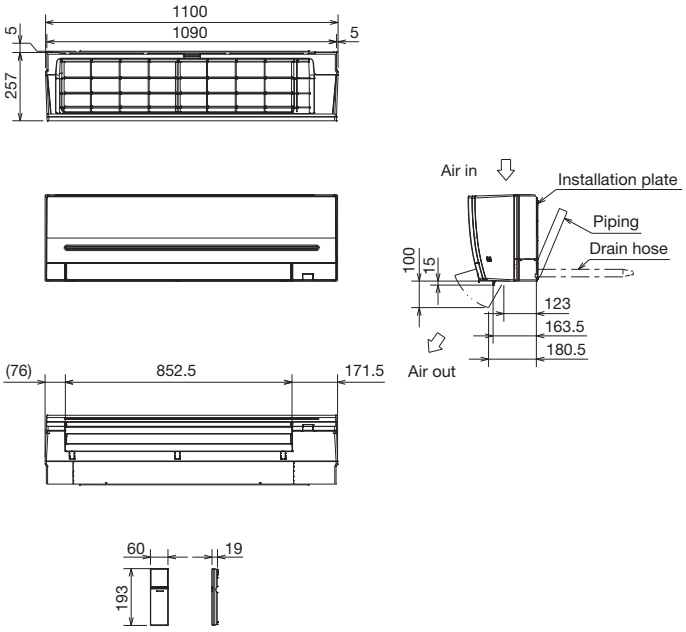
INDOOR UNIT



Piping	Insulation	ø37 O.D
	Liquid line	ø6.35 - 0.39m (Flared connection ø6.35)
	Gas line	ø9.52 - 0.34m (Flared connection ø9.52)
Drain hose		Insulation ø29 Connected part ø16 O.D

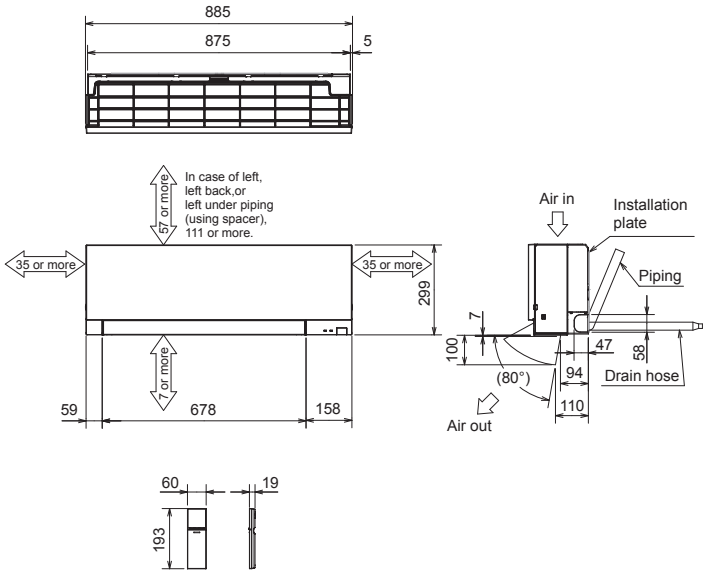
MSZ-AP60VG MSZ-AP71VG
MSZ-AP60VGK MSZ-AP71VGK

INDOOR UNIT



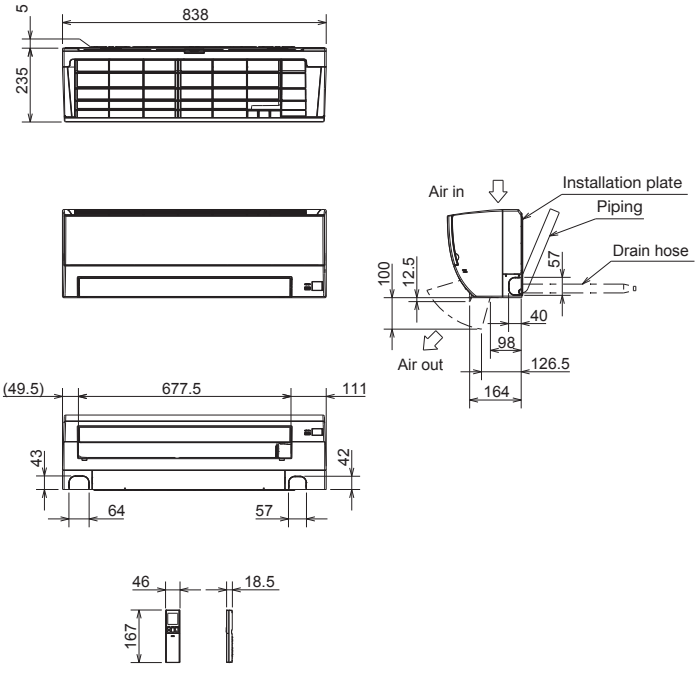
MSZ-EF18VG(W)(B)(S) MSZ-EF22VG(W)(B)(S)
MSZ-EF25VG(W)(B)(S) MSZ-EF35VG(W)(B)(S)
MSZ-EF42VG(W)(B)(S) MSZ-EF50VG(W)(B)(S)
MSZ-EF18VGK(W)(B)(S) MSZ-EF22VGK(W)(B)(S)
MSZ-EF25VGK(W)(B)(S) MSZ-EF35VGK(W)(B)(S)
MSZ-EF42VGK(W)(B)(S) MSZ-EF50VGK(W)(B)(S)

INDOOR UNIT



MSZ-BT20VG MSZ-BT25VG MSZ-BT35VG MSZ-BT50VG
MSZ-BT20VGK MSZ-BT25VGK MSZ-BT35VGK MSZ-BT50VGK

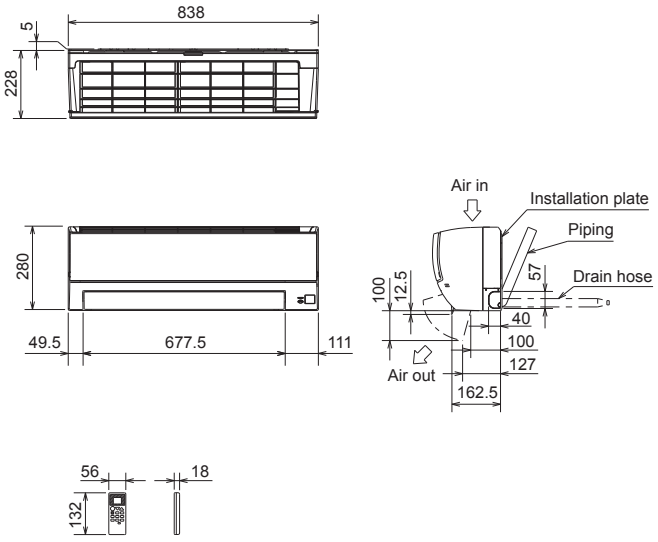
INDOOR UNIT



Unit : mm

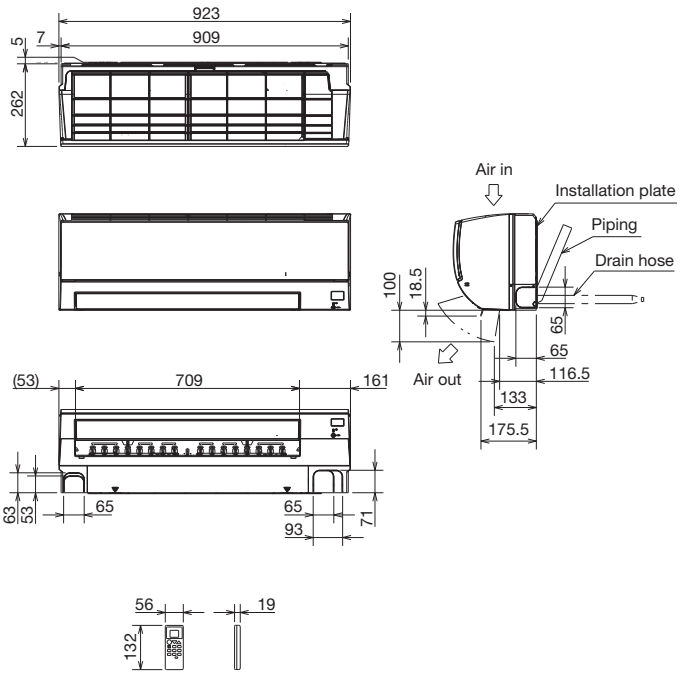
MSZ-HR25VF(K) MSZ-HR35VF(K) MSZ-HR42VF(K) MSZ-HR50VF(K)

INDOOR UNIT



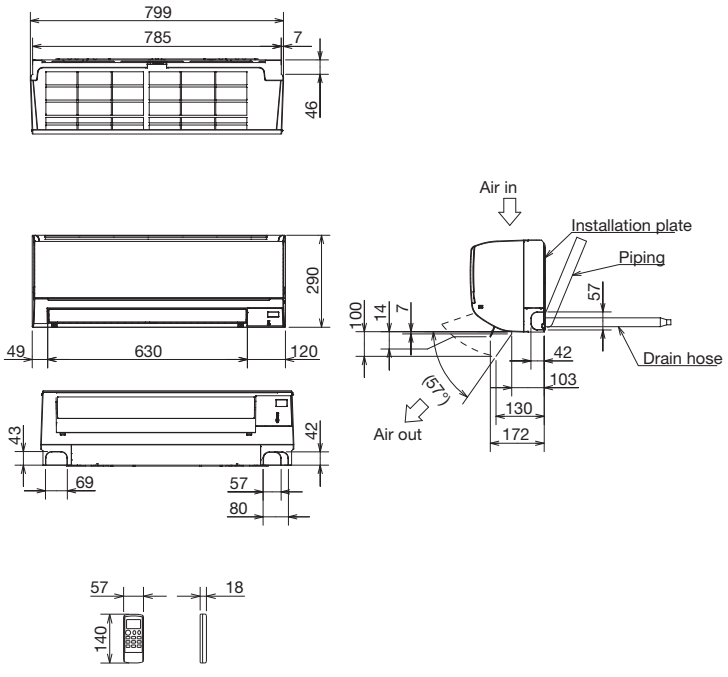
MSZ-HR60VF(K) MSZ-HR71VF(K)

INDOOR UNIT



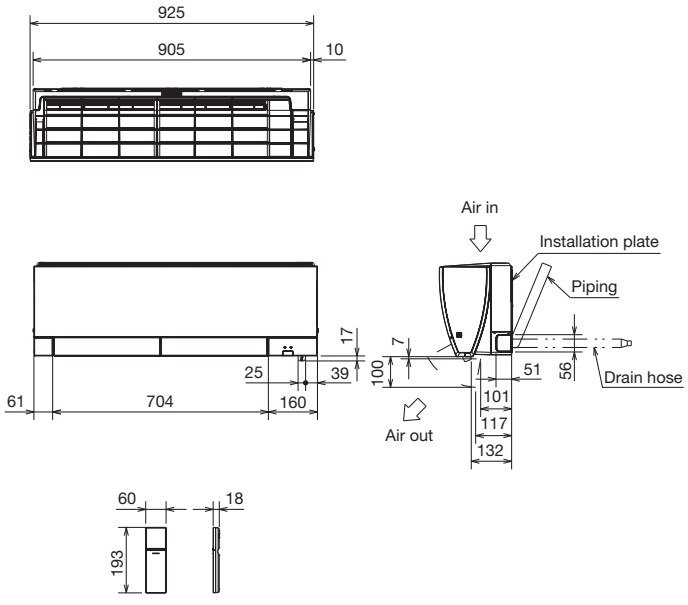
MSZ-DW25VF MSZ-DW35VF MSZ-DW50VF

INDOOR UNIT



MSZ-FH25VE2 MSZ-FH35VE2 MSZ-FH50VE2

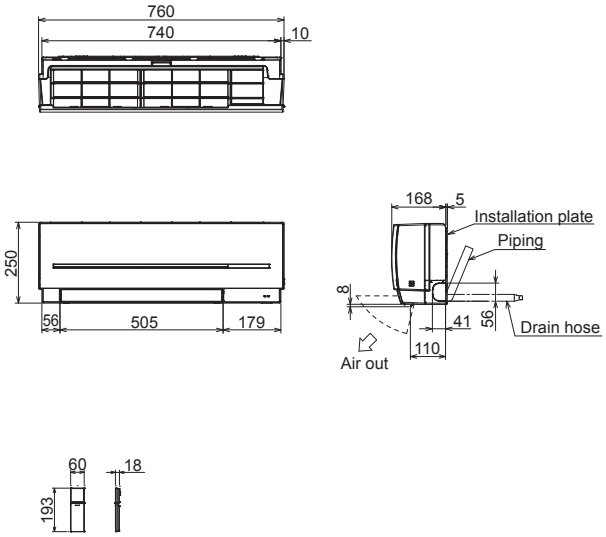
INDOOR UNIT



Unit : mm

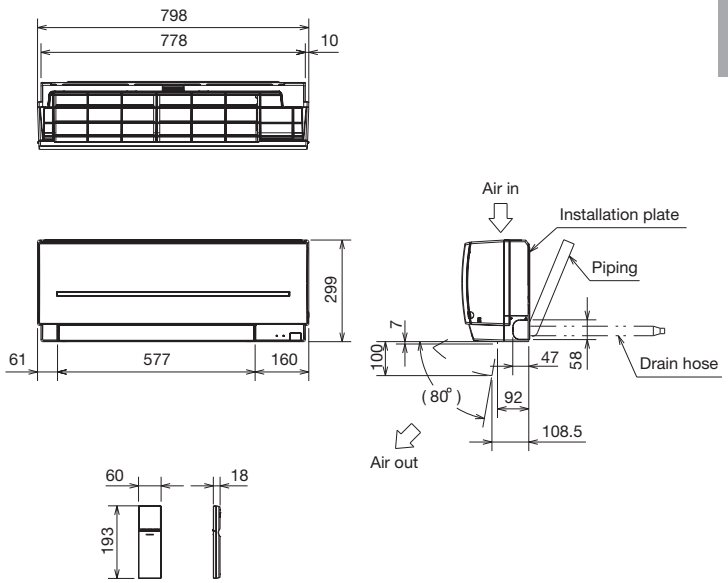
MSZ-SF15VA MSZ-SF20VA

INDOOR UNIT



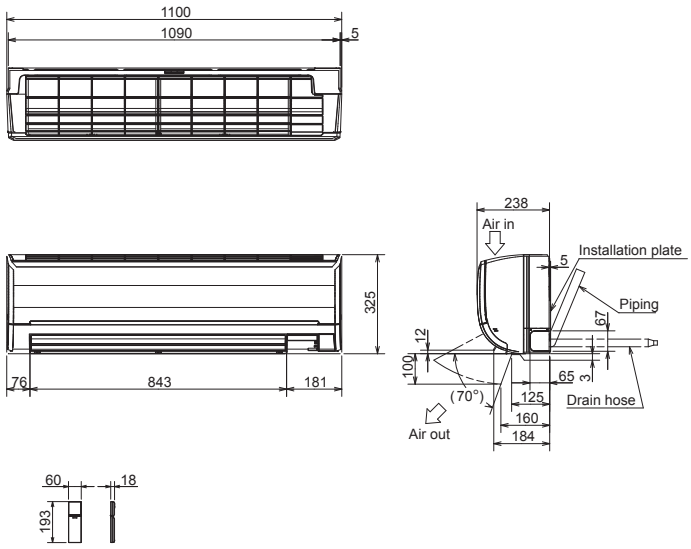
MSZ-SF25VE3 MSZ-SF35VE3 MSZ-SF42VE3 MSZ-SF50VE3

INDOOR UNIT



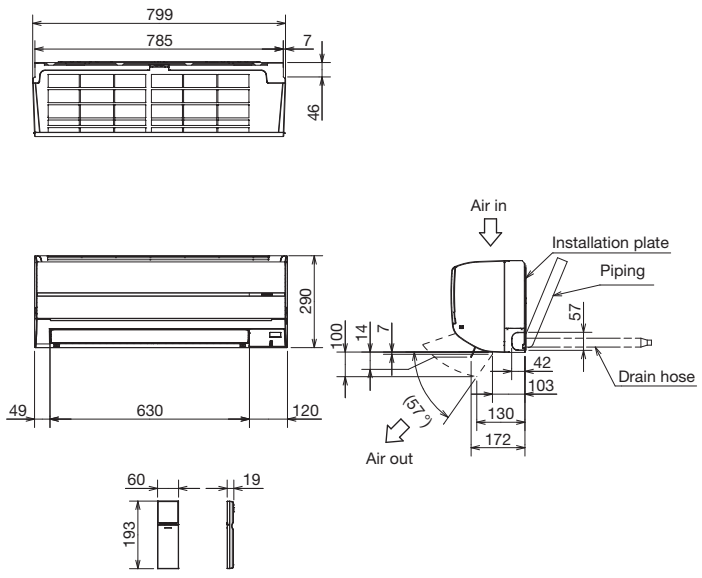
MSZ-GF60VE2 MSZ-GF71VE2

INDOOR UNIT



MSZ-WN25VA MSZ-WN35VA

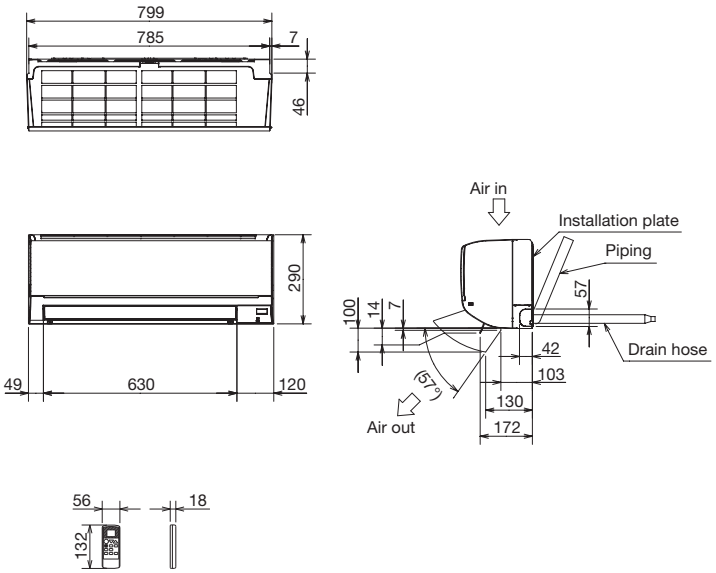
INDOOR UNIT



Unit : mm

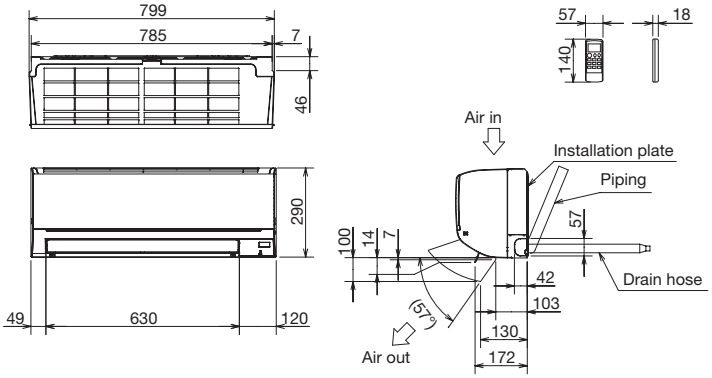
MSZ-DM25VA MSZ-DM35VA

INDOOR UNIT

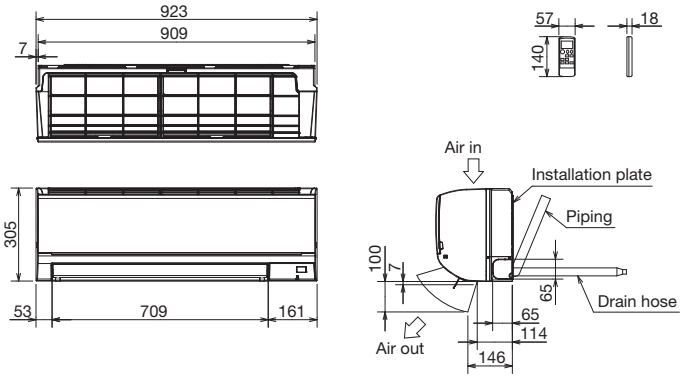


MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA

INDOOR UNIT

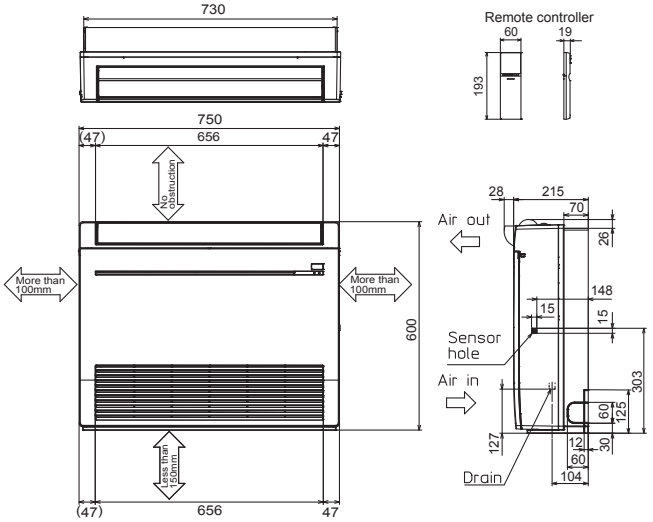


MSZ-HJ60VA MSZ-HJ71VA MSY-TP35VF MSY-TP50VF



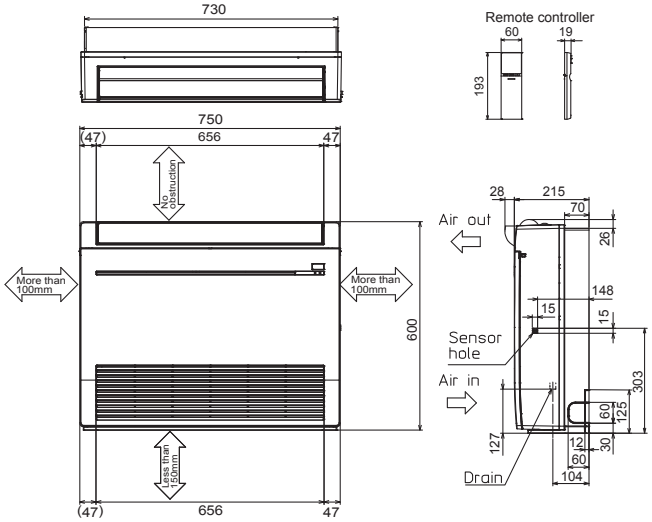
MFZ-KT25VG MFZ-KT35VG MFZ-KT50VG MFZ-KT60VG

INDOOR UNIT



MFZ-KW25VG MFZ-KW35VG MFZ-KW50VG MFZ-KW60VG

INDOOR UNIT

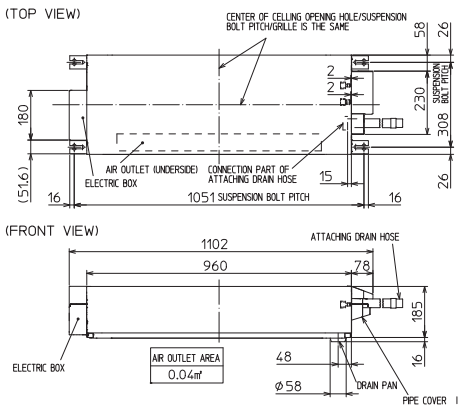


Unit : mm

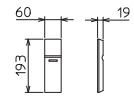
MLZ-KP25VG MLZ-KP35VG MLZ-KP50VG

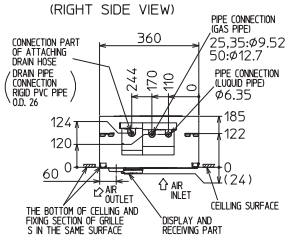
INDOOR UNIT

INDOOR UNIT OUTLINE DRAWING

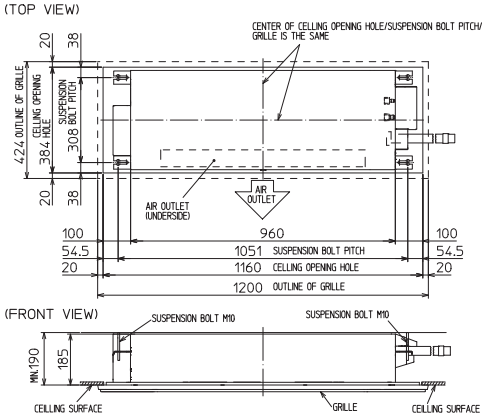


REMOTE CONTROLLER OUTLINE DRAWING



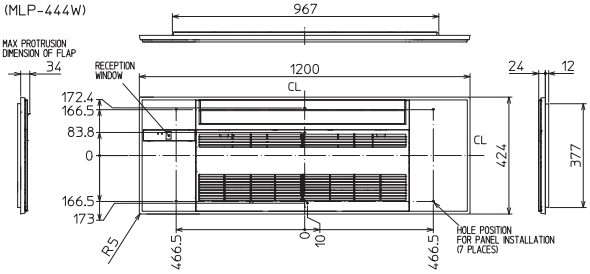


INDOOR UNIT DETAIL VIEW



GRILLE OUTLINE DRAWING

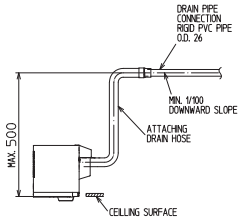
(MLP-444W)



		KP25/35VF	KP50VF
EXTENSION PIPE	LIQUID PIPE O.D.	ø6.35	
	GAS PIPE O.D.	ø9.52	ø12.7
CONNECTIONG OF PIPE	LIQUID PIPE	FLARED CONNECTION ø6.35	
	GAS PIPE	FLARED CONNECTION ø9.52	FLARED CONNECTION ø12.7
DRAIN HOSE		HEAT INSULATER O.D. ø32	CONNECTION I.D. ø25 EFFECTIVE LENGTH 480
DRAIN PIPE CONNECTION		RIGID PVC PIPE O.D. 26	

NOTE1. CUTTING ATTACHING DRAIN HOSE CAN BE USED.

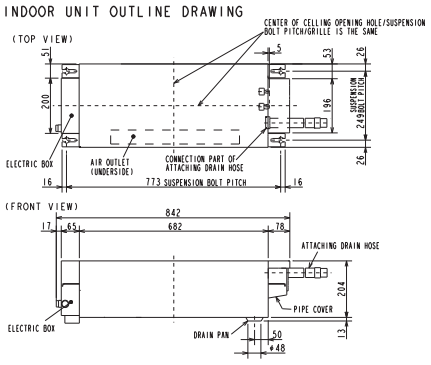
THE METHOD FOR STANDING DRAIN FROM INDOOR UNIT
※ CUTTING ATTACHING DRAIN HOSE CAN BE USED



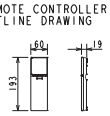
MLZ-KY20VG

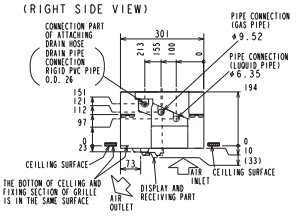
INDOOR UNIT

INDOOR UNIT OUTLINE DRAWING

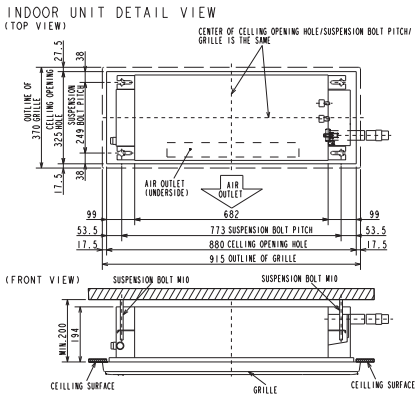


REMOTE CONTROLLER OUTLINE DRAWING

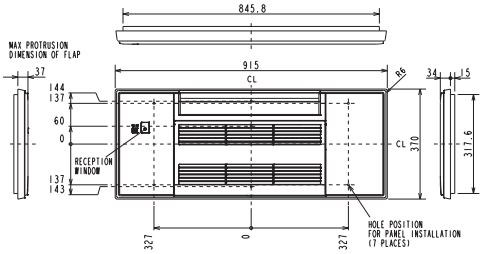




INDOOR UNIT DETAIL VIEW



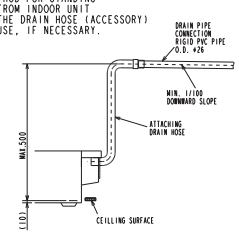
GRILLE OUTLINE DRAWING
(MLP-448W)



EXTENSION PIPE	LIQUID PIPE O.D.	ϕ6.35
	GAS PIPE O.D.	ϕ9.52
CONNECTIONG OF PIPE	LIQUID PIPE	FLARED CONNECTION ϕ6.35
	GAS PIPE	FLARED CONNECTION ϕ9.52
DRAIN HOSE		HEAT INSULATER O.D. ϕ32 CONNECTION I.D. ϕ25 EFFECTIVE LENGTH 480
DRAIN PIPE CONNECTION		RIGID PVC PIPE O.D.ϕ26

NOTE1. CUT THE DRAIN HOSE (ACCESSORY) FOR USE, IF NECESSARY.

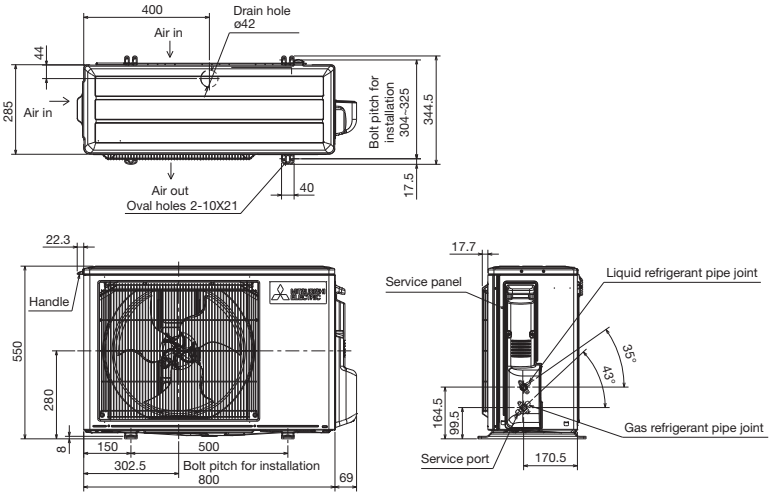
THE METHOD FOR STANDING DRAIN FROM INDOOR UNIT
● CUT THE DRAIN HOSE (ACCESSORY) FOR USE, IF NECESSARY.



Unit : mm

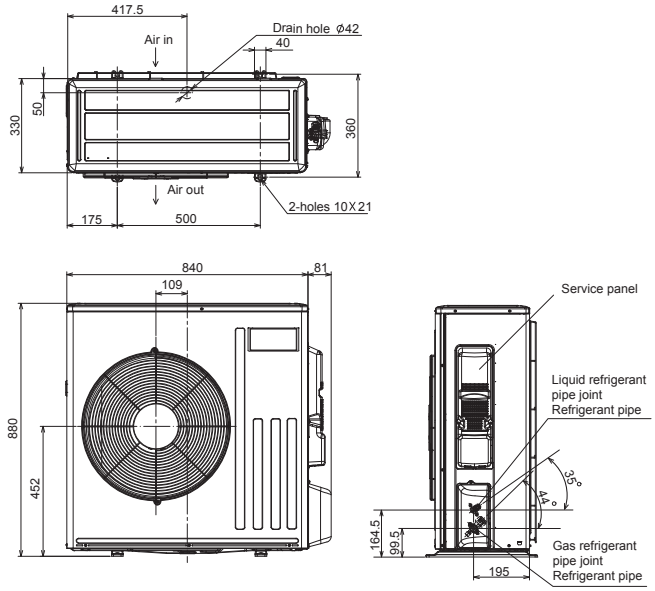
MUZ-LN25VG **MUZ-LN25VGHZ**
MUZ-LN35VG **MUZ-LN35VGHZ**
MUZ-AY20VG
MUZ-AY25VG **MUZ-AY25VGH**
MUZ-AY35VG **MUZ-AY35VGH**
MUZ-AY42VG **MUZ-AY42VGH** **MUZ-HR42VF**
MUZ-FT25VGHZ **MUZ-HR50VF**
MUZ-FH25VE **MUZ-FH35VE** **MUZ-DW50VF**
MUZ-FH25VEHZ **MUZ-FH35VEHZ**
MUZ-EF25VG **MUZ-EF25VGH**
MUZ-EF35VG **MUZ-EF35VGH** **MUY-TP50VF**
MUZ-EF42VG **MUY-TP35VF** **MUZ-SF35VE**
MUZ-SF25VE **MUZ-SF25VEH** **MUZ-SF42VEH**
MUZ-SF35VEH **MUZ-SF42VE**
MUZ-HJ50VA
MUFZ-KJ25VE **MUFZ-KJ35VE**
MUFZ-KJ25VEHZ **MUFZ-KJ35VEHZ** **MUZ-BT50VG**

OUTDOOR UNIT



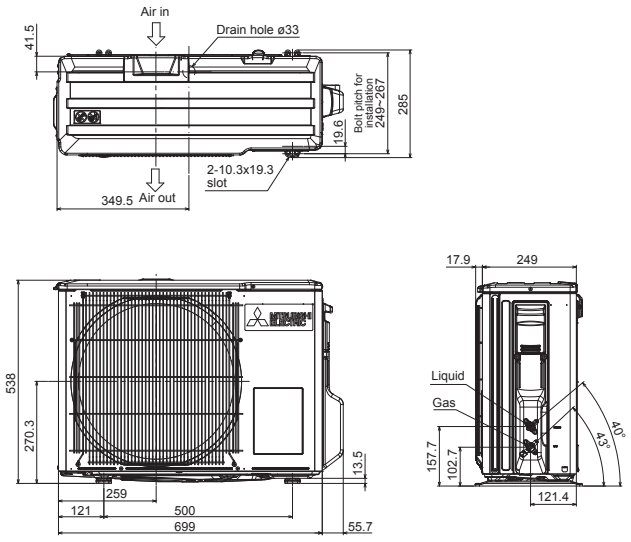
MUZ-FH50VE **MUZ-FH50VEHZ** **MUZ-AP71VG**
MUZ-SF50VE **MUZ-SF50VEH**
MUZ-GF60VE **MUZ-GF71VE**
MUZ-HJ60VA **MUZ-HJ71VA**
MUFZ-KJ50VE **MUFZ-KJ50VEHZ**

OUTDOOR UNIT



MUZ-AY15VG MUZ-BT20VG

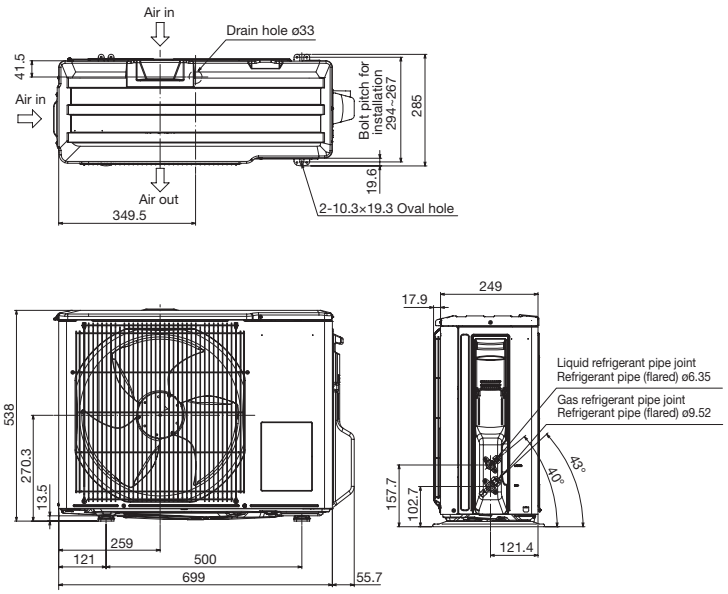
OUTDOOR UNIT



Unit : mm

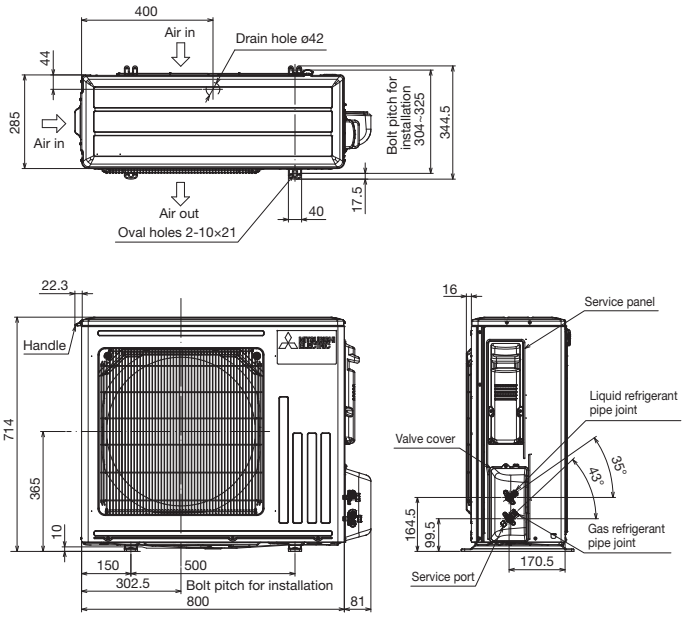
MUZ-WN25VA MUZ-WN35VA MUZ-HR25VF MUZ-BT25VG
MUZ-DM25VA MUZ-DM35VA MUZ-HR35VF MUZ-BT35VG
MUZ-HJ25VA MUZ-HJ35VA
MUZ-DW25VF MUZ-DW35VF

OUTDOOR UNIT



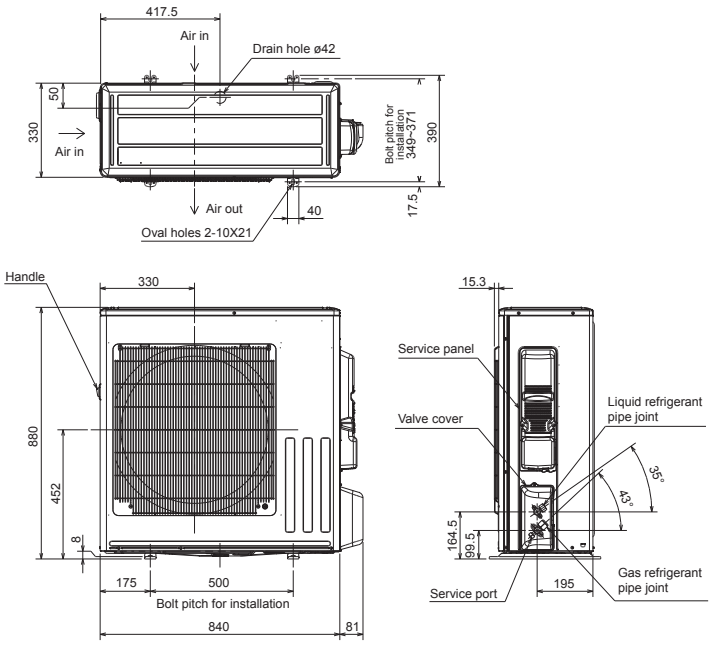
MUZ-RZ25VU(HZ) MUZ-RZ35VU(HZ)
MUZ-RW25VGHZ MUZ-RW35VGHZ
MUZ-LN50VG
MUZ-FT35/50VGHZ
MUZ-AY50VG MUZ-AY50VGH MUZ-AP60VG
MUZ-EF50VG
MUZ-HR60VF MUZ-HR71VF

OUTDOOR UNIT



MUZ-RZ50VU(HZ)
MUZ-RW50VGHZ
MUZ-LN60VG2
MUZ-LN50VGHZ2

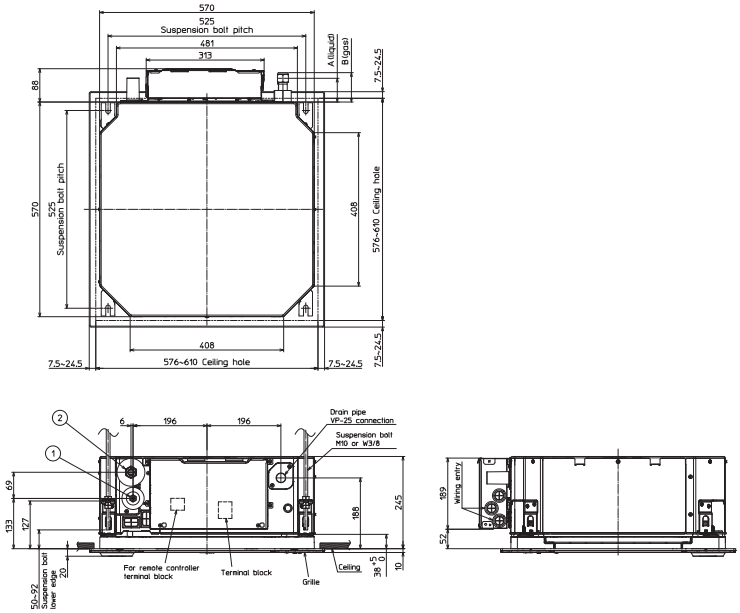
OUTDOOR UNIT



Unit : mm

SLZ-M15FA2
SLZ-M25FA2 SLZ-M35FA2
SLZ-M50FA2 SLZ-M60FA2

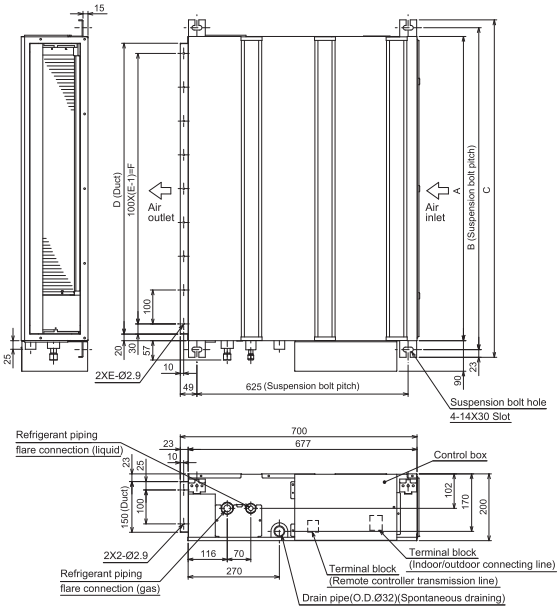
INDOOR UNIT



Models	① Refrigerent pipe (liquid)	② Refrigerent pipe (gas)	A	B
SLZ-M15FA2 SLZ-M25FA2 SLZ-M35FA2	ϕ6.35mm flared connection 1/4F	ϕ9.52mm flared connection 3/8F	63mm	72mm
SLZ-M50FA2	ϕ6.35mm flared connection 1/4F	ϕ12.7mm flared connection 1/2F	63mm	78mm
SLZ-M60FA2	ϕ6.35mm flared connection 1/4F	ϕ15.88mm flared connection 5/8F	63mm	78mm

SEZ-M25DA(L)2 SEZ-M35DA(L)2 SEZ-M50DA(L)2
SEZ-M60DA(L)2 SEZ-M71DA(L)2

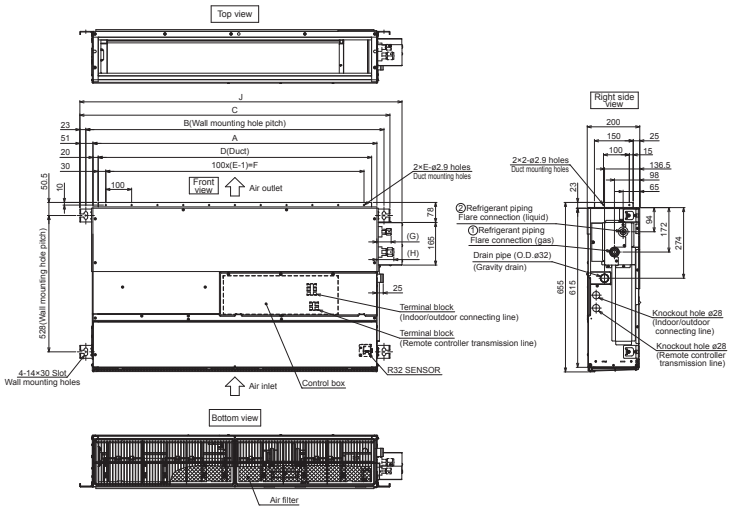
INDOOR UNIT



Model	A	B	C	D	E	F	G	H	J	K	L	Gas pipe	Liquid pipe
SEZ-M25DA(L)2	700	752	798	660	7	600	800	660	5	500	16	Ø9.52	Ø6.35
SEZ-M35DA(L)2	900	952	998	860	9	800	1000	860	7	700	20		
SEZ-M50DA(L)2												Ø12.7	
SEZ-M60DA(L)2	1100	1152	1198	1060	11	1000	1200	1060	9	900	24	Ø15.88	Ø9.52
SEZ-M71DA(L)2													

SFZ-M25VA SFZ-M35VA
SFZ-M60VA SFZ-M71VA

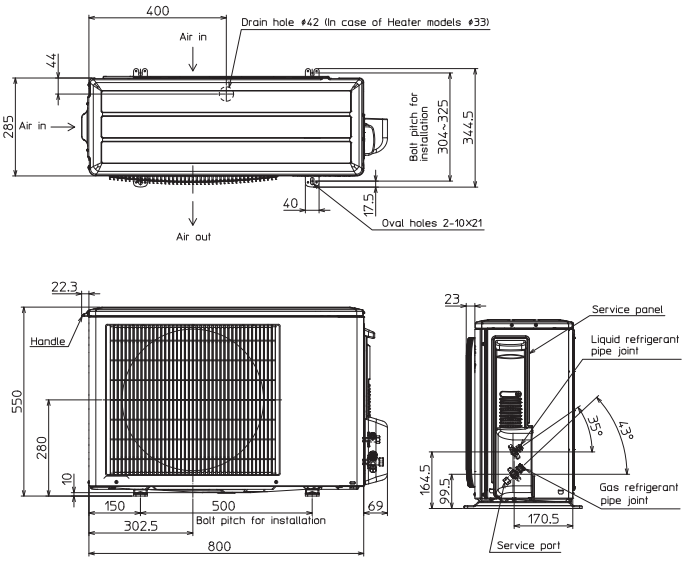
INDOOR UNIT



MODEL	A	B	C	D	E	F	G	H	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

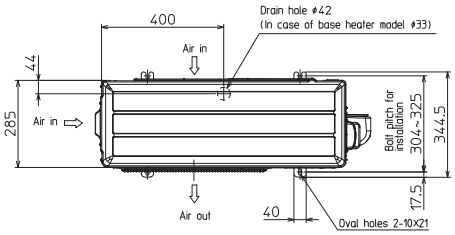
SUZ-M25VA SUZ-M35VA

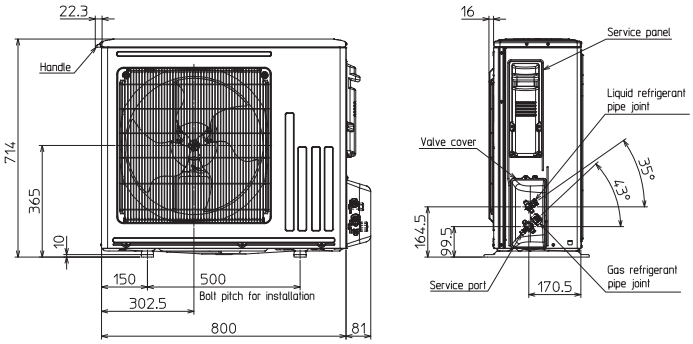
OUTDOOR UNIT



SUZ-M50VA

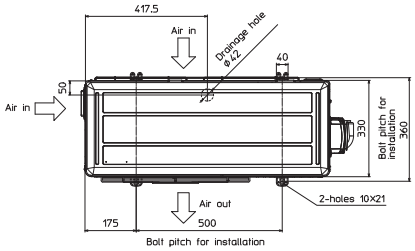
OUTDOOR UNIT

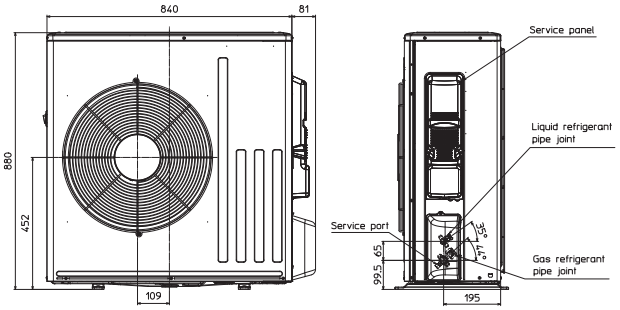




SUZ-M60VA SUZ-M71VA

OUTDOOR UNIT





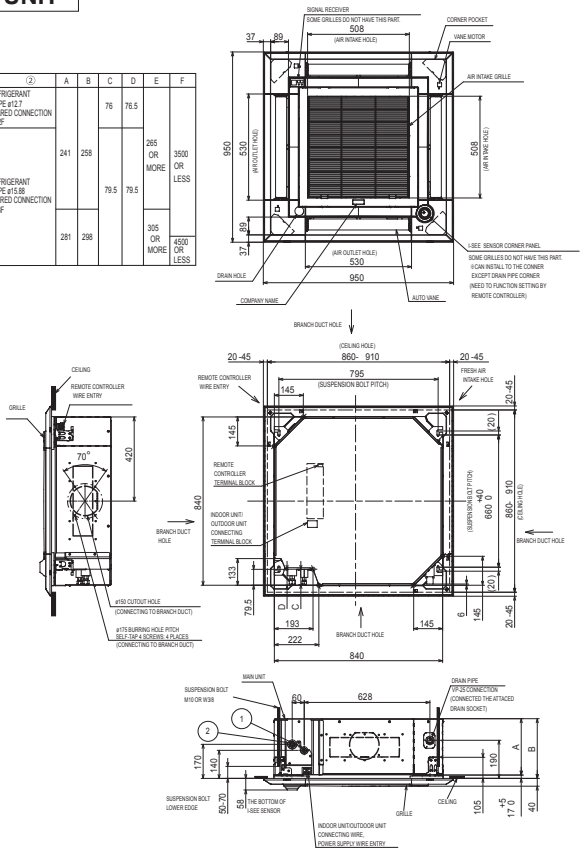
Unit : mm

PLA-ZM35EA2 PLA-ZM50EA2 PLA-ZM60EA2 PLA-ZM71EA2 PLA-ZM100EA2 PLA-ZM125EA2 PLA-ZM140EA2 PLA-M35EA2 PLA-M50EA2 PLA-M60EA2 PLA-M71EA2 PLA-M100EA2 PLA-M125EA2 PLA-M140EA2

INDOOR UNIT

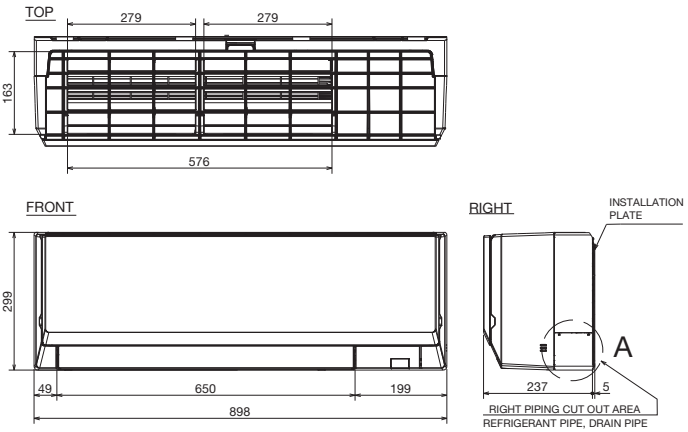
PLA-ZM35/50/60/71/100/125/140EA2
PLA-M35/50/60/71/100/125/140EA2

ZM	①	②	A	B	C	D	E	F
35/50	REFRIGERANT PIPE ø6.35 FLARED CONNECTION 1/4F	REFRIGERANT PIPE ø12.7 FLARED CONNECTION 1/2F	241	258	76	76.5	265 OR MORE	3500 OR LESS
60	REFRIGERANT PIPE ø9.52 FLARED CONNECTION 3/8F	REFRIGERANT PIPE ø15.88 FLARED CONNECTION 5/8F			79.5	79.5		
71			281	298			305 OR MORE	4500 OR LESS
100-140								



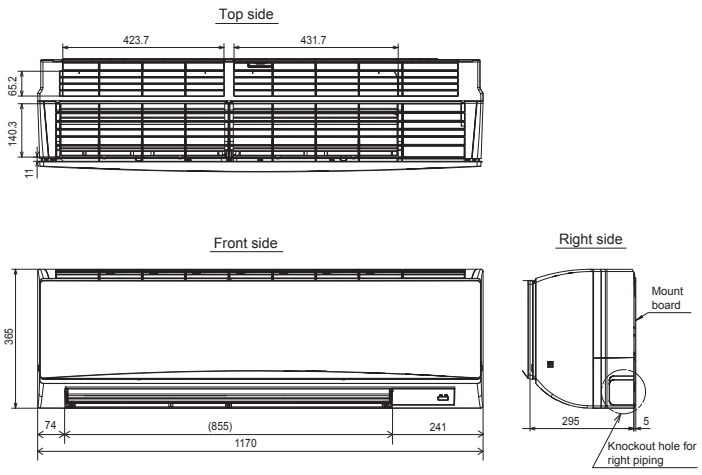
PKA-M35LA(L)2 PKA-M50LA(L)2

INDOOR UNIT



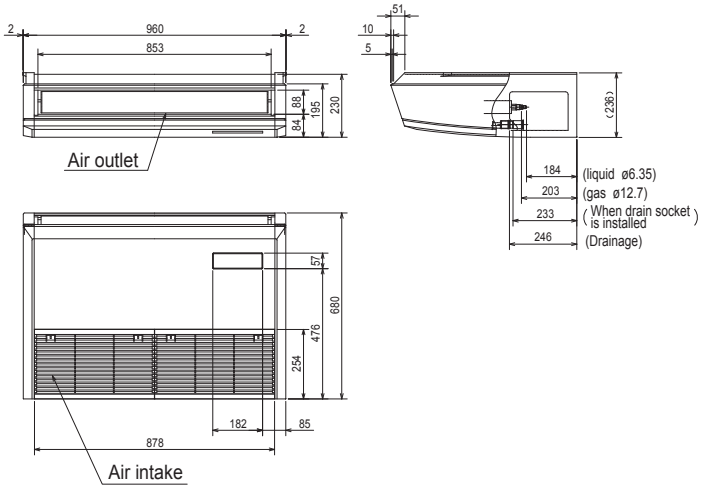
PKA-M60KA(L)2 PKA-M71KA(L)2 PKA-M100KA(L)2

INDOOR UNIT



PCA-M35KA2 PCA-M50KA2

INDOOR UNIT

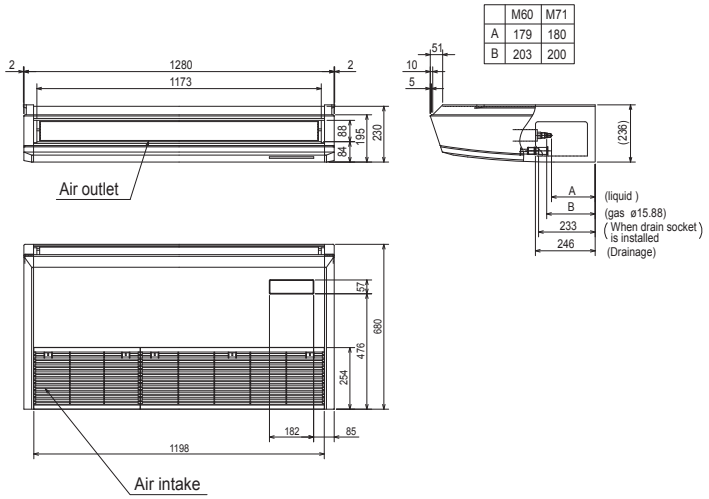


NOTES.
1.Use M10 or W3/8 screw for anchor bolt.
2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

Unit : mm

PCA-M60KA2 PCA-M71KA2

INDOOR UNIT

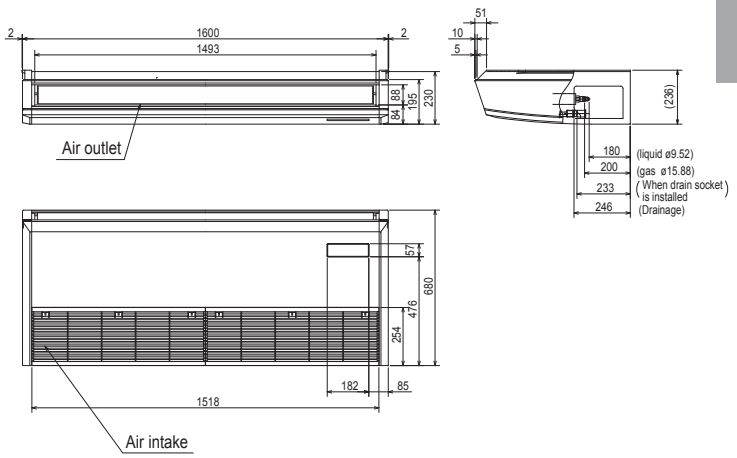


NOTES.
1.Use M10 or W3/8 screw for anchor bolt.
2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

Use the current nuts meeting the pipe size of the outdoor unit.
Available pipe size

PCA-M100KA2 PCA-M125KA2 PCA-M140KA2

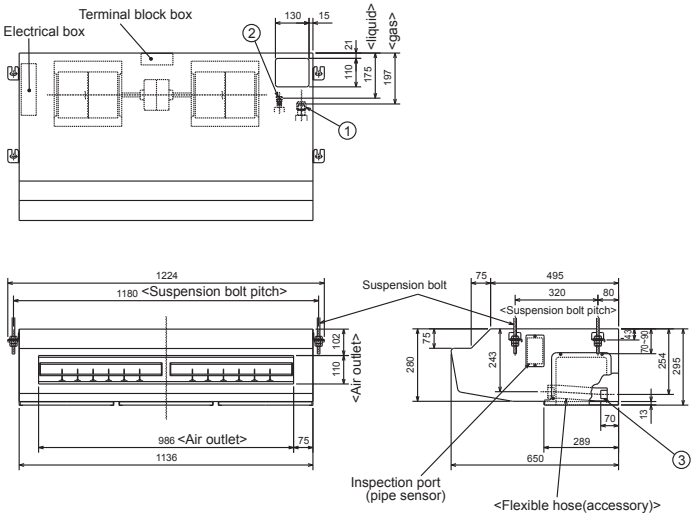
INDOOR UNIT



NOTES.
1.Use M10 or W3/8 screw for anchor bolt.
2.Please be sure when installing the drain pump (option parts), refrigerant pipe will be only upward.

PCA-M71HA2

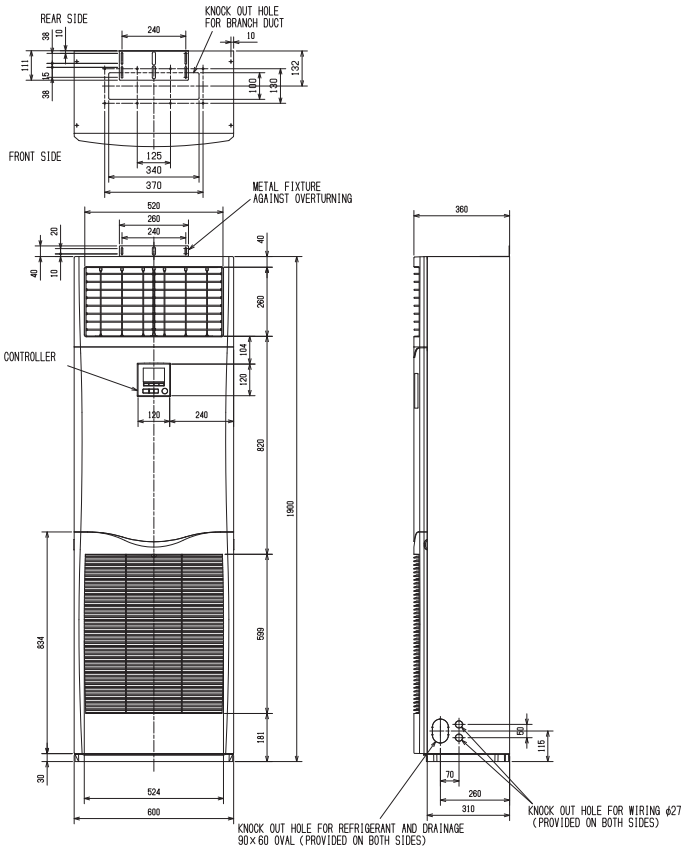
INDOOR UNIT



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

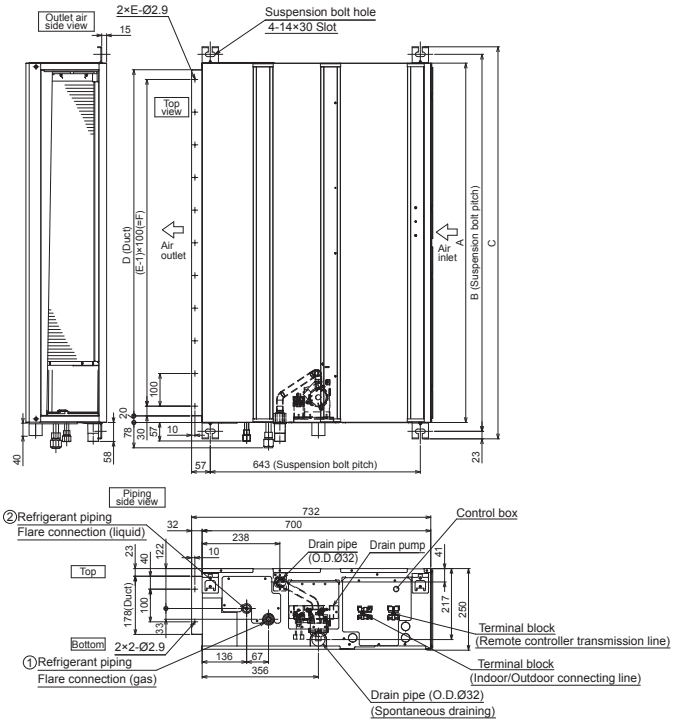
INDOOR UNIT



Unit : mm

PEAD-M35JA2 PEAD-M50JA2 PEAD-M60JA2 PEAD-M71JA2 PEAD-M100JA2 PEAD-M125JA2 PEAD-M140JA2

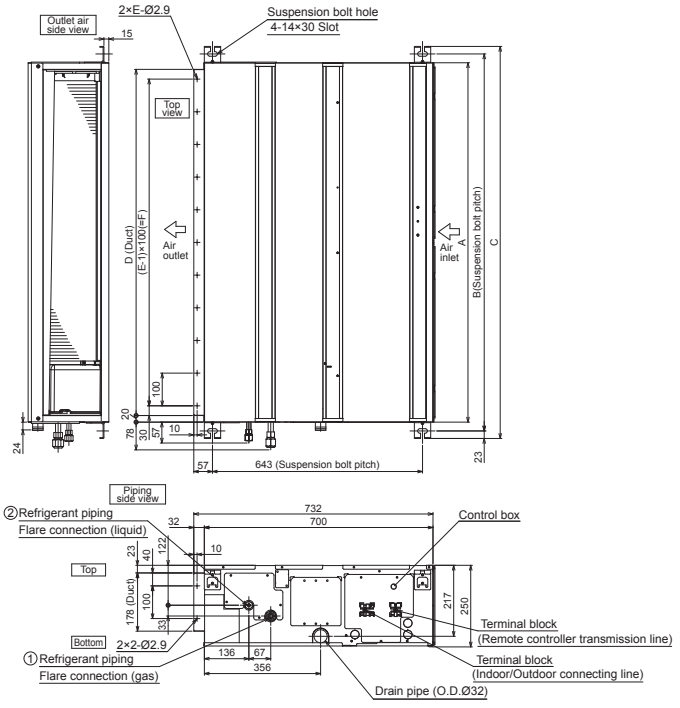
INDOOR UNIT



Model	A	B	C	D	E	F	G	①Gas pipe	②Liquid pipe
PEAD-M35, 50JA2	900	954	1000	860	9	800	858	Ø12.7	Ø6.35
PEAD-M60, 71JA2	1100	1154	1200	1060	11	1000	1058	Ø15.88	Ø9.52
PEAD-M100, 125JA2	1400	1454	1500	1360	14	1300	1358		
PEAD-M140JA2	1600	1654	1700	1560	16	1500	1558		

PEAD-M35JAL2 PEAD-M50JAL2 PEAD-M60JAL2 PEAD-M71JAL2 PEAD-M100JAL2 PEAD-M125JAL2 PEAD-M140JAL2

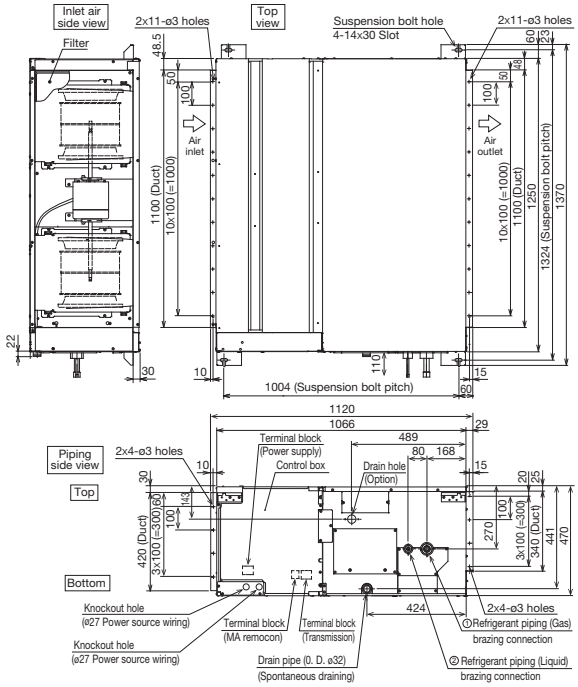
INDOOR UNIT



Model	A	B	C	D	E	F	G	①Gas pipe	②Liquid pipe
PEAD-M35, 50JAL2	900	954	1000	860	9	800	858	Ø12.7	Ø6.35
PEAD-M60, 71JAL2	1100	1154	1200	1060	11	1000	1058	Ø15.88	Ø9.52
PEAD-M100, 125JAL2	1400	1454	1500	1360	14	1300	1358		
PEAD-M140JAL2	1600	1654	1700	1560	16	1500	1558		

PEA-M200LA2 PEA-M250LA2

INDOOR UNIT

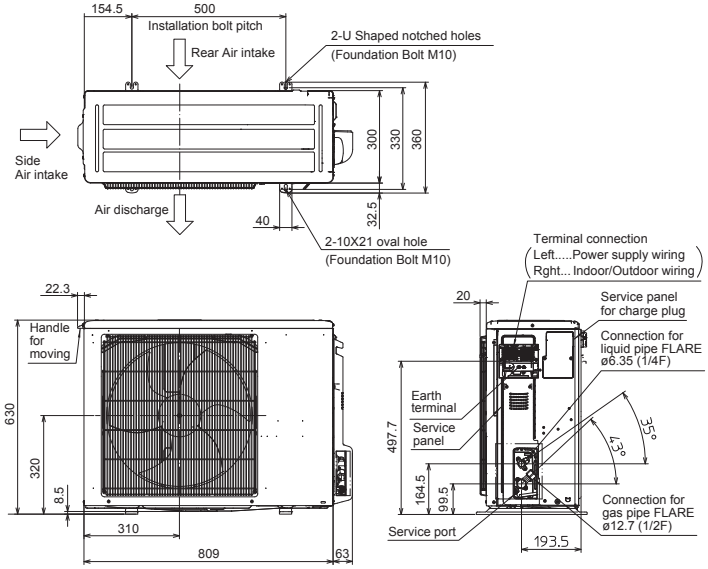


Model	①Gas pipe	②Liquid pipe	Outdoor unit
PEA-M200LA2	ø22.2	ø9.52	PUZ-M200YDA
	Ø25.4 ※Reducer Accessory	ø9.52	PUZ-M200YKA2 PUZ-ZM200YKA2 PUHZ-P200YKA3 PUHZ-ZRP200YKA3
PEA-M250LA2	ø22.2	ø9.52	PUZ-M250YDA
	ø25.4 ※Reducer Accessory	ø12.7 ※Reducer Accessory	PUZ-M250YKA2 PUZ-ZM250YKA2 PUHZ-P250YKA3 PUHZ-ZRP250YKA3

Unit : mm

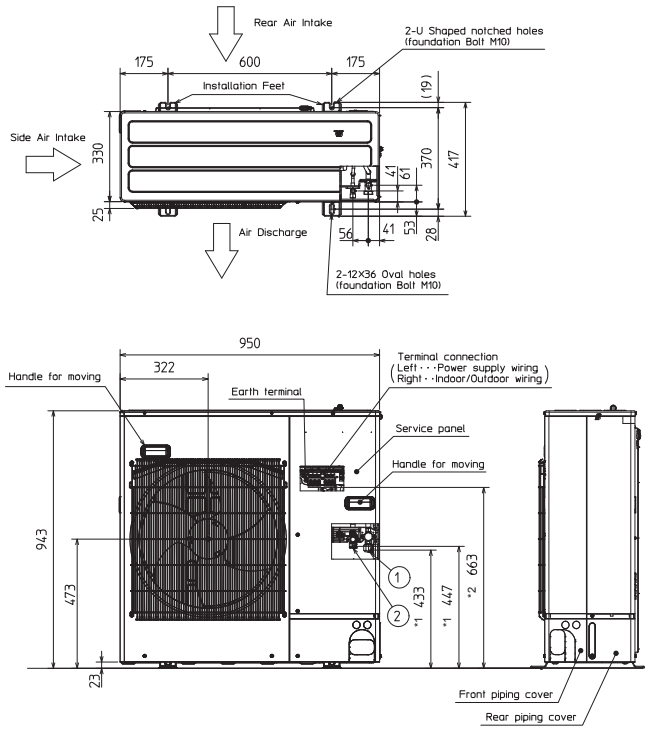
PUZ-ZM35VKA2 PUZ-ZM50VKA2

OUTDOOR UNIT



PUZ-ZM60VHA2 PUZ-ZM71VHA2

OUTDOOR UNIT



① · · ·Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)

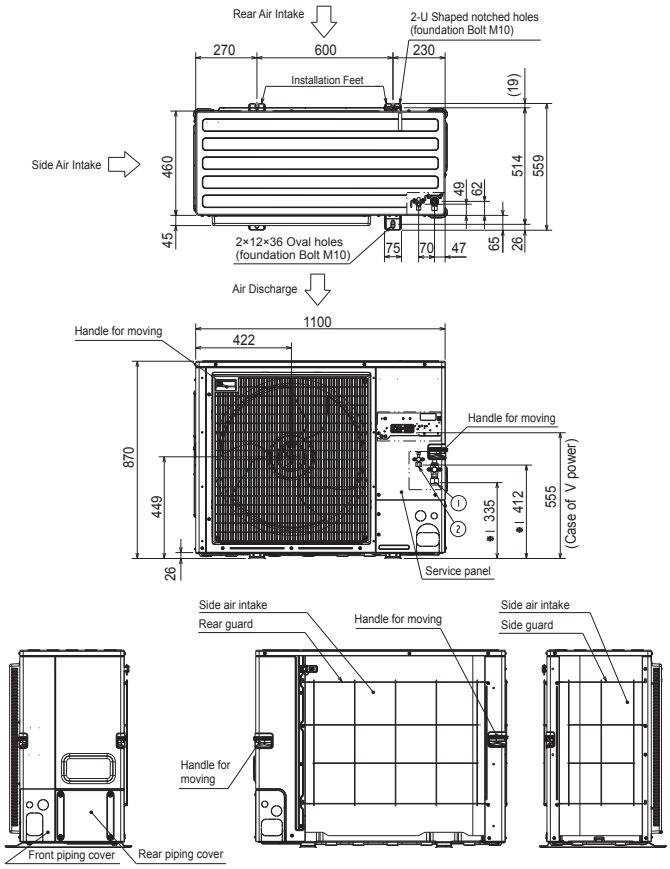
② · · ·Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)

*1 · · · Indication of STOP VALVE connection location.

*2 · · · Indication of Terminal connection location.

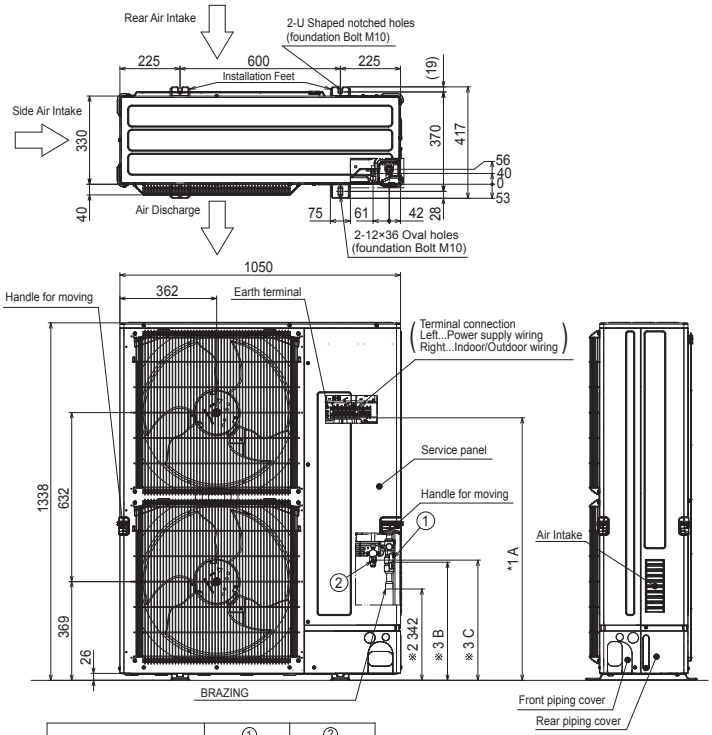
PUZ-ZM100VDA PUZ-ZM125VDA PUZ-ZM140VDA
PUZ-ZM100YDA PUZ-ZM125YDA PUZ-ZM140YDA

OUTDOOR UNIT



PUZ-ZM200YKA2 PUHZ-ZM250YKA2

OUTDOOR UNIT



Model	① Refrigerant GAS pipe connection	② Refrigerant LIQUID pipe connection
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	A	B	C
PUZ-ZM/M200,250YKA.UK	985	442	450

※1...Indication of Terminal connection location.

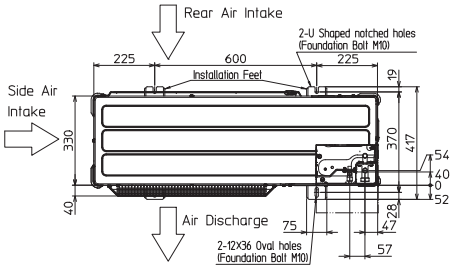
※2...Refrigerant GAS PIPE connection (BRAZING) O.Dø25.4.

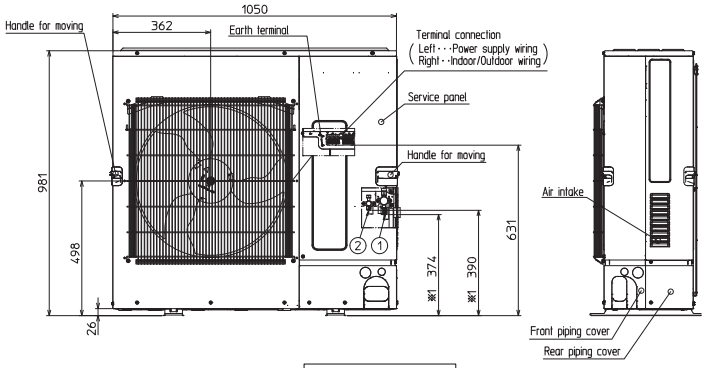
※3...Indication of STOP VALVE connection location.

Unit : mm

PUZ-M100VKA2 PUZ-M100YKA2
PUZ-M125VKA2 PUZ-M125YKA2
PUZ-M140VKA2 PUZ-M140YKA2

OUTDOOR UNIT



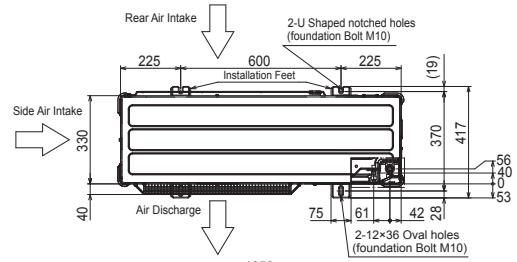


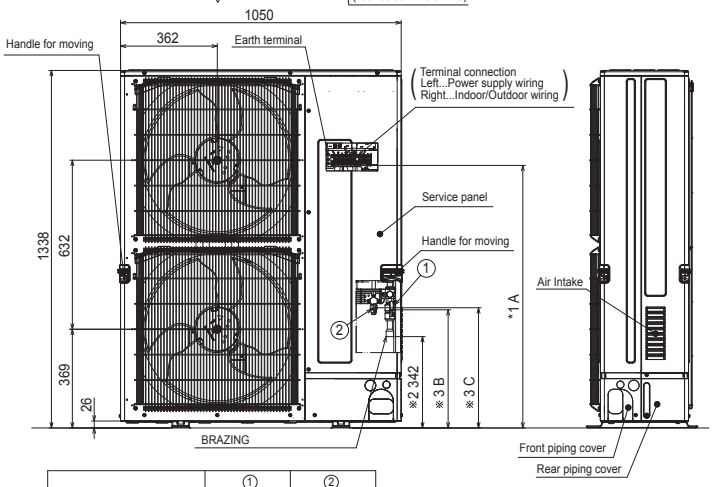
Example Of Notes

①···Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
②···Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
※1···Indication of STOP VALVE connection location.

PUZ-M200YKA2 PUZ-M250YKA2

OUTDOOR UNIT





Model	① Refrigerant GAS pipe connection	② Refrigerant LIQUID pipe connection
PUZ-ZM/M200YKA.UK	ø19.05 (3/4F)	ø9.52 (3/8F)
PUZ-ZM/M250YKA.UK	ø19.05 (3/4F)	ø12.7 (1/2F)

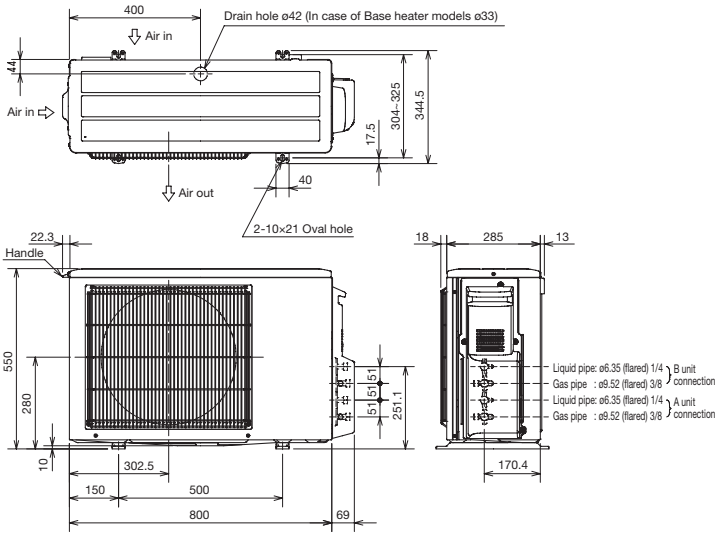
Model	A	B	C
PUZ-ZM/M200,250YKA.UK	985	442	450

※1...Indication of Terminal connection location.
※2...Refrigerant GAS PIPE connection (BRAZING) O.Dø25.4.
※3...Indication of STOP VALVE connection location.

Unit : mm

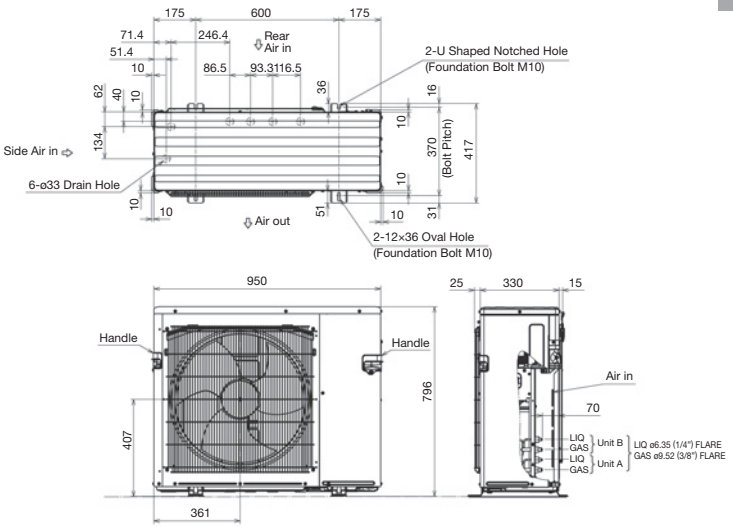
MXZ-2HA40VF2 MXZ-2HA50VF2 MXZ-2F33VF4 MXZ-2F42VF4 MXZ-2F53VF4 MXZ-2F53VFH4

OUTDOOR UNIT



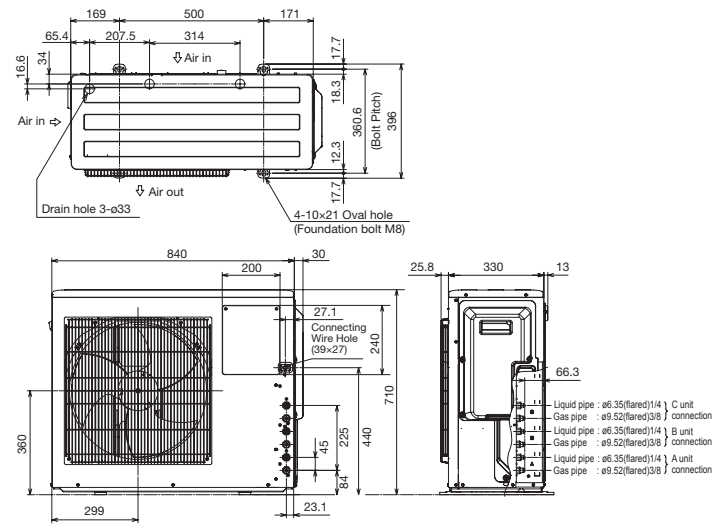
MXZ-2F53VFHZ2

OUTDOOR UNIT



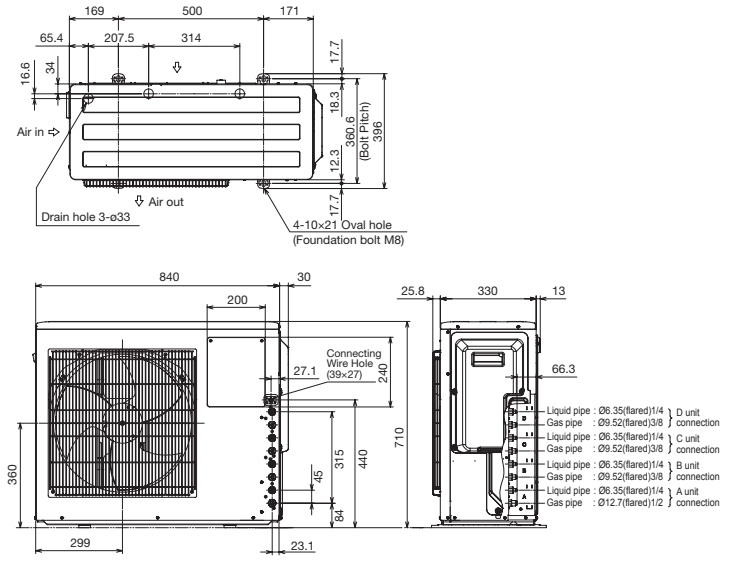
MXZ-3DM50VA MXZ-3HA50VF2 MXZ-3F54VF4 MXZ-3F68VF4

OUTDOOR UNIT



MXZ-4F72VF4 MXZ-4F80VF4

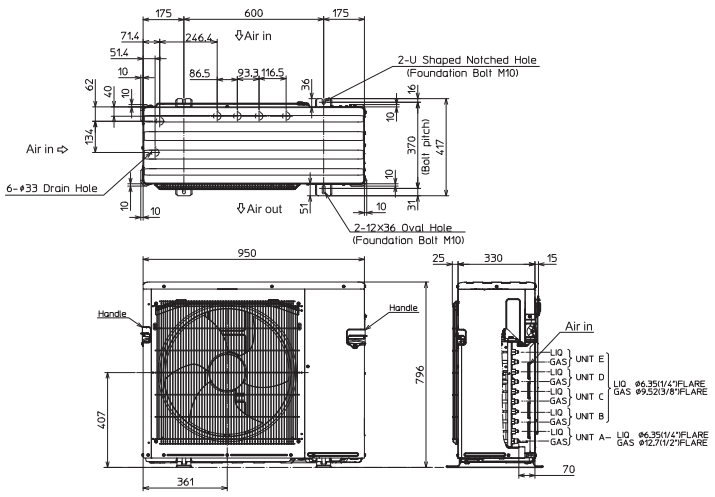
OUTDOOR UNIT



Unit : mm

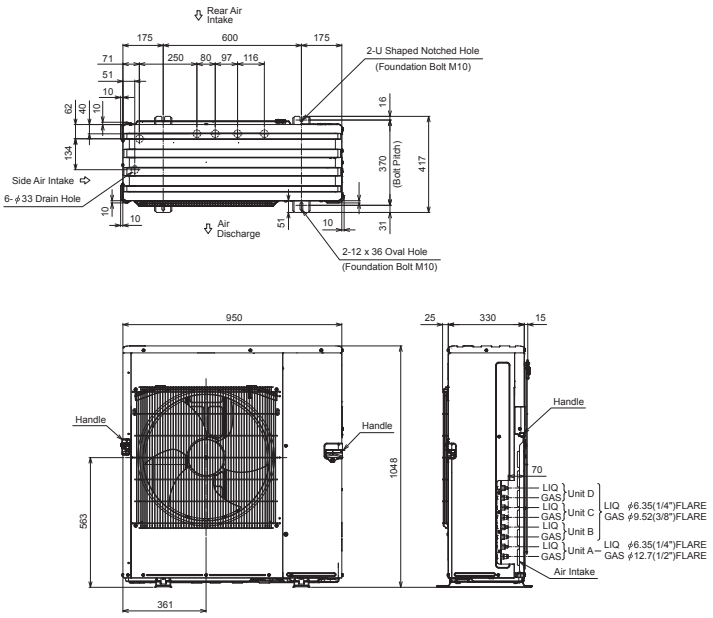
MXZ-4E83VA MXZ-5E102VA MXZ-4F83VF2 MXZ-5F102VF2

OUTDOOR UNIT



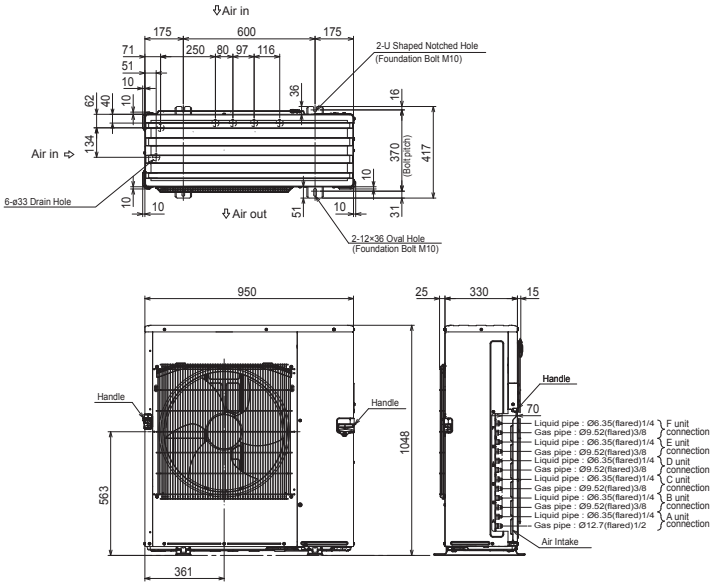
MXZ-4E83VAHZ MXZ-4F83VFHZ2

OUTDOOR UNIT



MXZ-6D122VA2 MXZ-6F120VF2

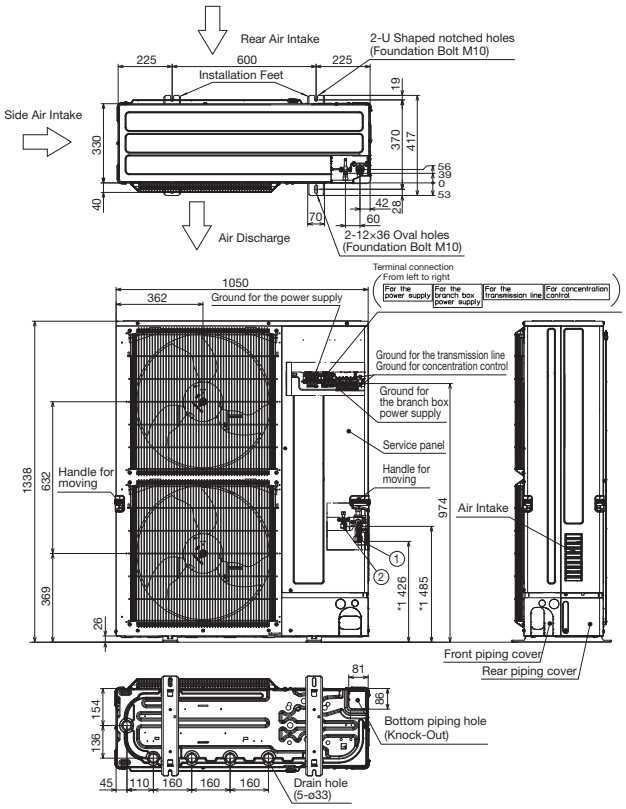
OUTDOOR UNIT



Unit : mm

PUMY-P112/125/140VKM6(-BS)

OUTDOOR UNIT

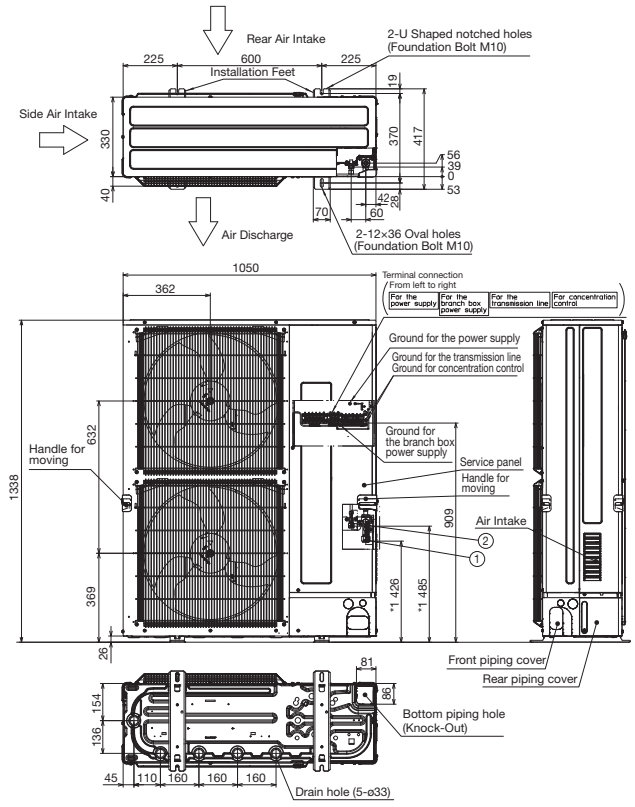


Example of Notes

①・・Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
②・・Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
*1 ・・Indication of STOP VALVE connection location.

PUMY-P112/125/140YKM5(-BS)

OUTDOOR UNIT

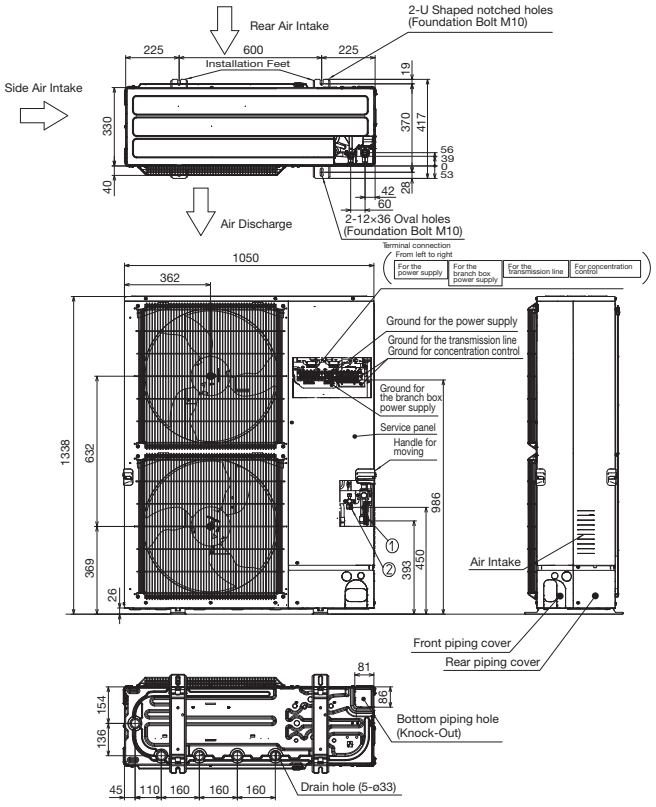


Example of Notes

①・・Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
②・・Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
*1 ・・Indication of STOP VALVE connection location.

PUMY-P200YKM3(-BS)

OUTDOOR UNIT

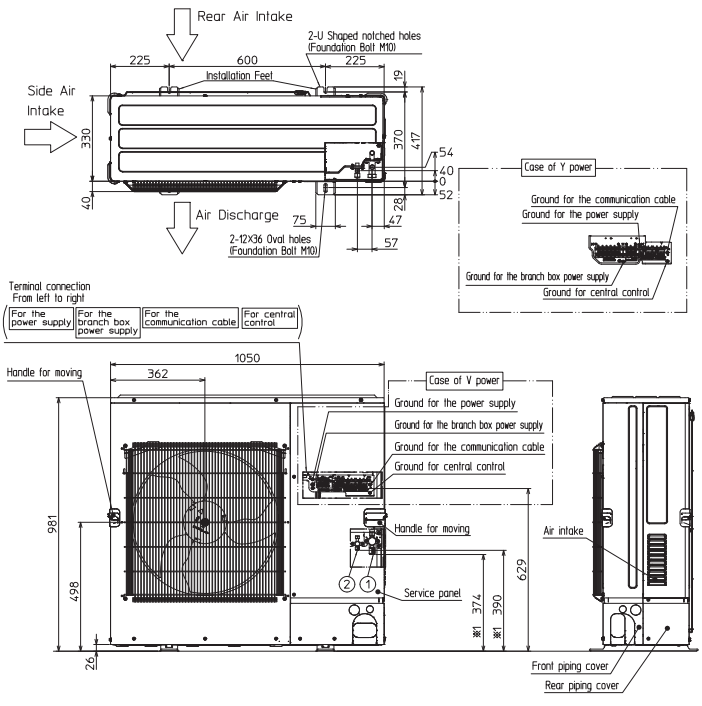


Example of Notes

①・・Refrigerant GAS pipe connection (FLARE) ø19.05 (3/4F)
②・・Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
*1 ・・Indication of STOP VALVE connection location.

PUMY-SP112/125/140VKM2(-BS)
PUMY-SP112/125/140YKM2(-BS)

OUTDOOR UNIT



Example of Notes

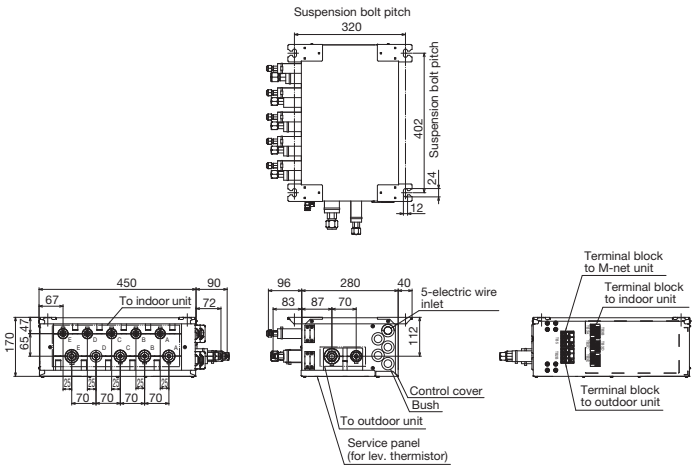
①・・・Refrigerant GAS pipe connection (FLARE) ø15.88 (5/8F)
②・・・Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
※1・・・Indication of STOP VALVE connection location.

Unit : mm

PAC-MK54BC

Suspension bolt: W3/W8 (M10)

Branch box



Suspension bolt : W3/8(M10)

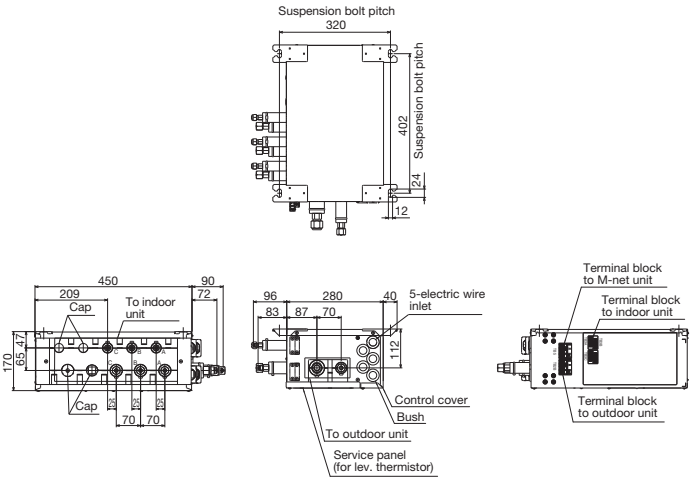
Refrigerant pipe flared connection

	A	B	C	D	E	To outdoor unit
Liquid pipe	ø6.35	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52
Gas pipe	ø9.52	ø9.52	ø9.52	ø9.52	ø12.7	ø15.88

PAC-MK34BC

Suspension bolt: W3/W8 (M10)

Branch box



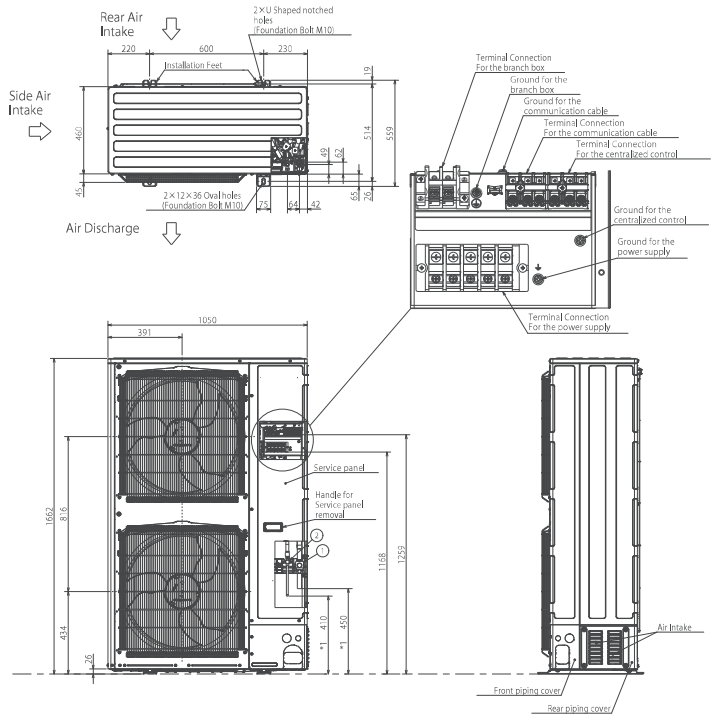
Suspension bolt : W3/8(M10)

Refrigerant pipe flared connection

	A	B	C			To outdoor unit
Liquid pipe	ø6.35	ø6.35	ø6.35			ø9.52
Gas pipe	ø9.52	ø9.52	ø9.52			ø15.88

PUMY-P250YBM2(-BS)
PUMY-P300YBM2(-BS)

OUTDOOR UNIT



Example of Notes

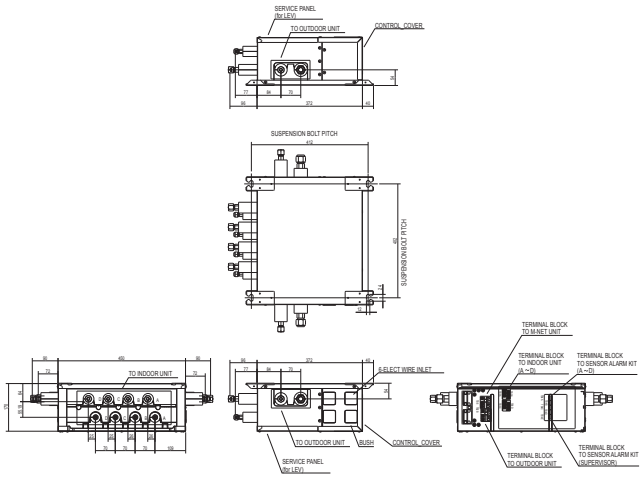
① ・・・Refrigerant GAS pipe connection ϕ22.2(7/8F)
② ・・・Refrigerant LIQUID pipe connection ϕ9.52(3/8F)
*1・・・Indication of STOP VALVE and BALL VALVE connection location.

Unit : mm

PAC-MMK40BCB

Suspension bolt: W3/W8 (M10)

Branch box



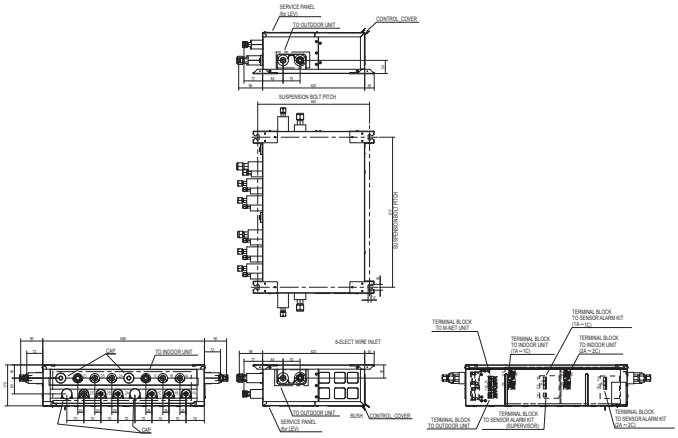
SUSPENSION BOLT: W3/8(M10)
REFRIGERANT PIPE FLARED CONNECTION

	A	B	C	D	TO OUTDOOR UNIT
LIQUID PIPE	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52
GAS PIPE	ø9.52	ø9.52	ø9.52	ø9.52	ø15.88

PAC-MMK60BCB

Suspension bolt: W3/W8 (M10)

Branch box

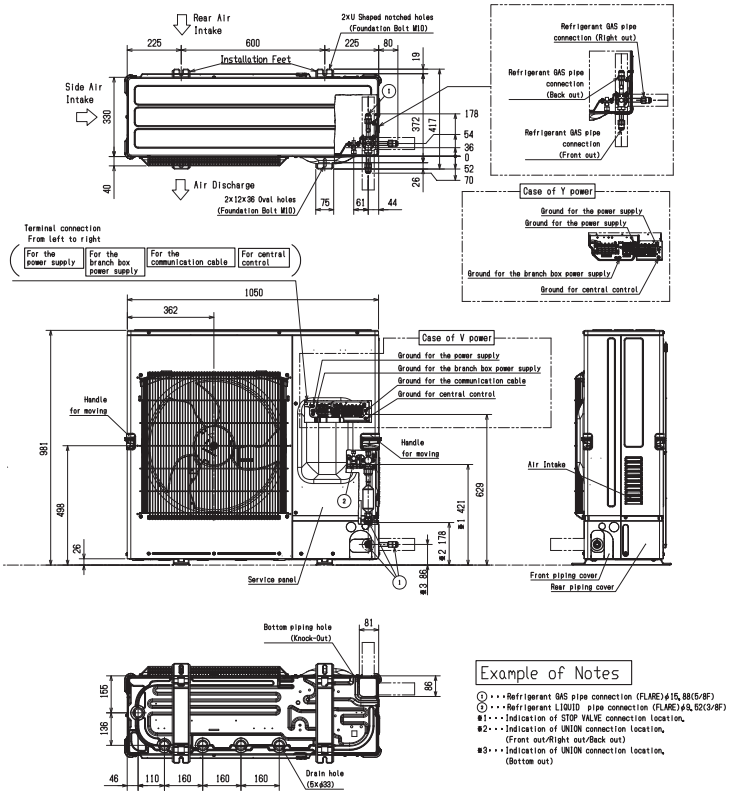


SUSPENSION BOLT: W3/8(M10)
REFRIGERANT PIPE FLARED CONNECTION

	1A	1B	1C	2A	2B	2C	TO OUTDOOR UNIT
LIQUID PIPE	ø6.35	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52	ø9.52
GAS PIPE	ø12.7	ø9.52	ø12.7	ø9.52	ø9.52	ø15.88	ø15.88

PUMY-SM112V(Y)KM(-BS)
PUMY-SM125V(Y)KM(-BS)
PUMY-SM140V(Y)KM(-BS)

OUTDOOR UNIT



Example of Notes

① ・・・Refrigerant GAS pipe connection (FLARE)ø15.88(5/8F)
② ・・・Refrigerant LIQUID pipe connection (FLARE)ø9.52(3/8F)
■1・・・Indication of STOP VALVE connection location.
■2・・・Indication of UNION connection location.
(Front out/Right out/Back out)
■3・・・Indication of UNION connection location.
(Bottom out)

Piping Installation

M SERIES

Single type

Series	Class <Outdoor unit>	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
		Total length (A)	Outdoor unit - Indoor unit (H)	Total number
MSZ-RZ	25 / 35	20	12	10
	50	30	15	10
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
	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 <Outdoor unit>	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
		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		

Twin type

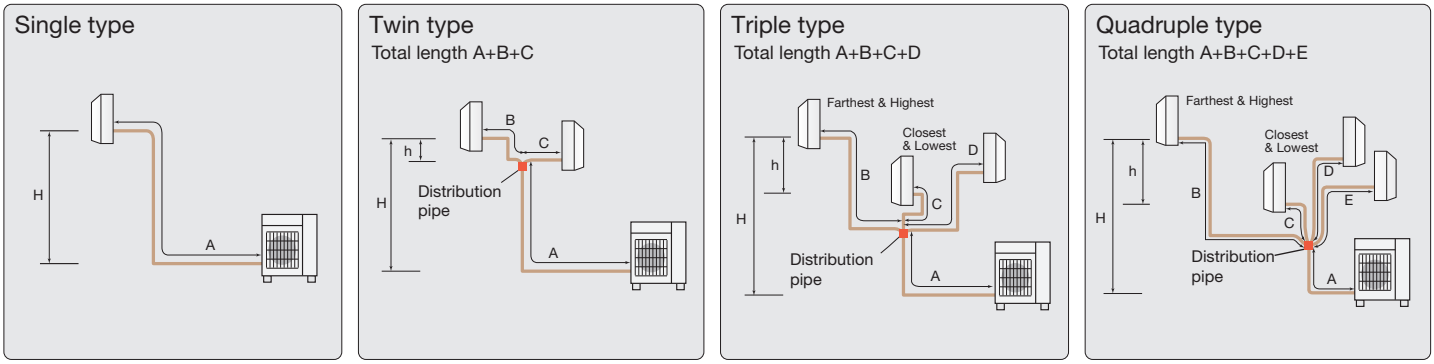
Series	Class <Outdoor unit>	Maximum Piping Length (m)			Maximum Height Difference (m)		Maximum Number of Bends
		Total length A+B+C	Pipe length difference from distribution pipe |B-C|	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
Power Inverter (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	8	20	30	1	15
	125 / 140	65					
	200 / 250						

Triple type

Series	Class <Outdoor unit>	Maximum Piping Length (m)			Maximum Height Difference (m)		Maximum Number of Bends
		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

Series	Class <Outdoor unit>	Maximum Piping Length (m)			Maximum Height Difference (m)		Maximum Number of Bends
		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



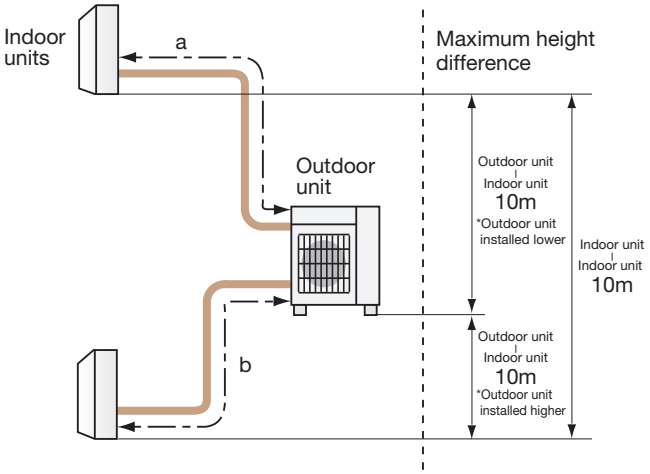
MXZ SERIES

MXZ-2F33VF4

Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	15m
Total length (a+b)	20m

Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b)	15
Total number (a+b)	20

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



MXZ-2F42VF4

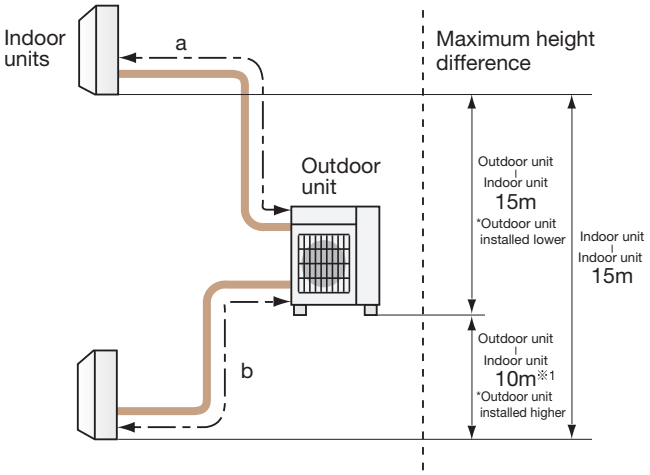
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b)	20m
Total length (a+b)	30m

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

MXZ-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



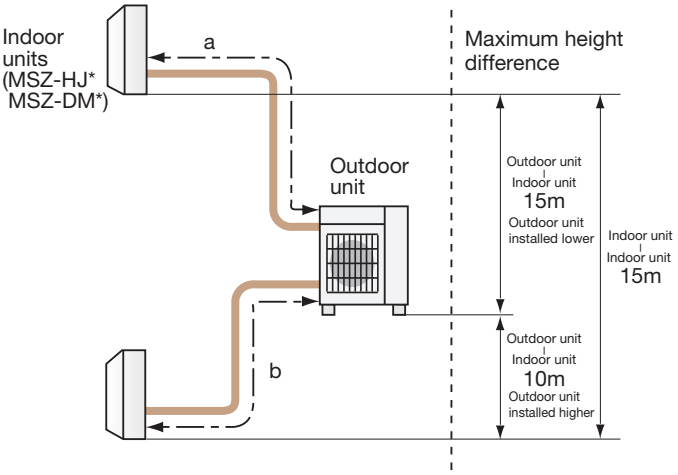
※1 in case of MXZ-2F53VFHZ2: 15m

MXZ SERIES

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

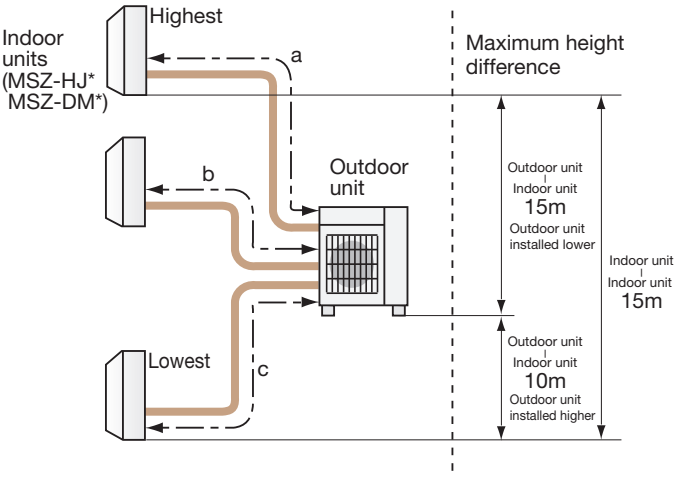


*Only MSZ-HJ and DM model is connectable.

MXZ-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

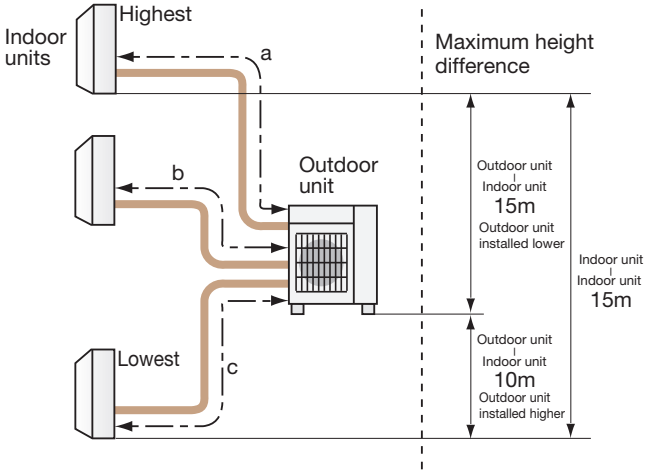


*Only MSZ-HJ and DM model is connectable.

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-3F68VF4, MXZ-4F72VF4, MXZ-4F80VF4

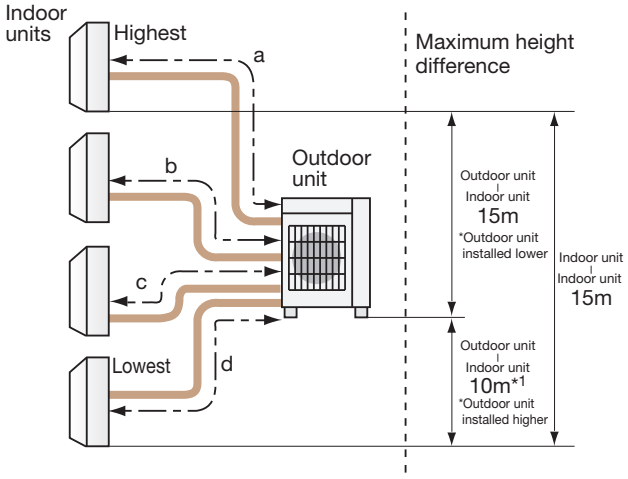
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	25m
Total length (a+b+c+d)	60m

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

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

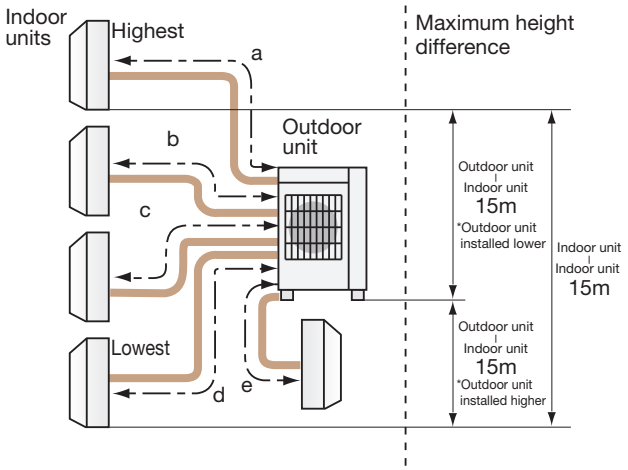


*1 in case of MXZ-4F83VF2 and MXZ-4F83VFHZ2: 15m

MXZ-5F102VF2

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

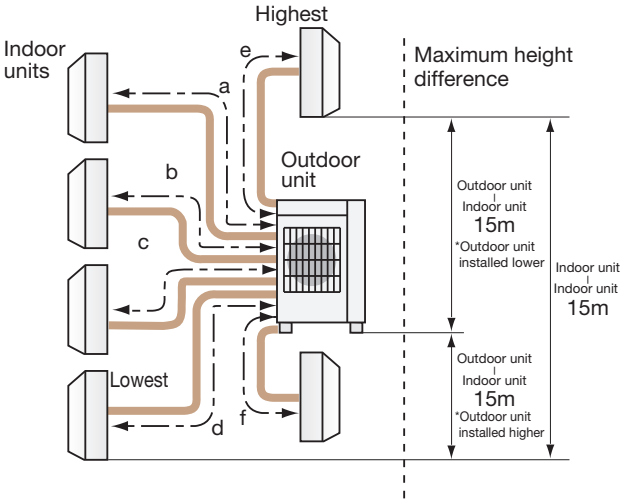
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e)	25
Total number (a+b+c+d+e)	80



MXZ-6F120VF2

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

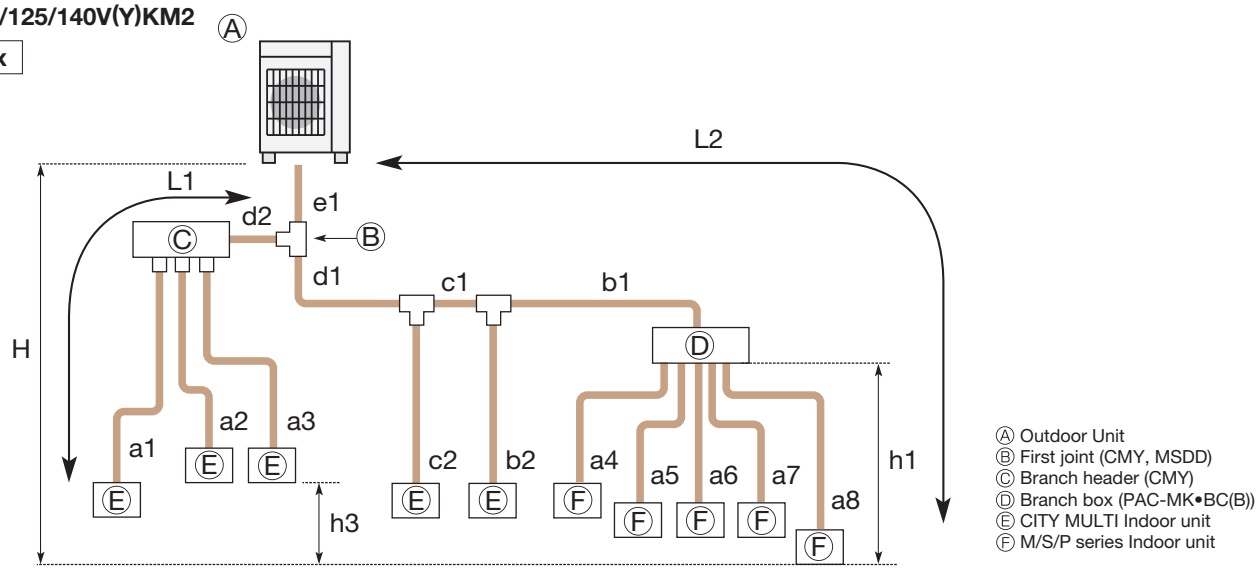
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e,f)	25
Total number (a+b+c+d+e+f)	80



PUMY SERIES

PUMY-SP112/125/140V(Y)KM2

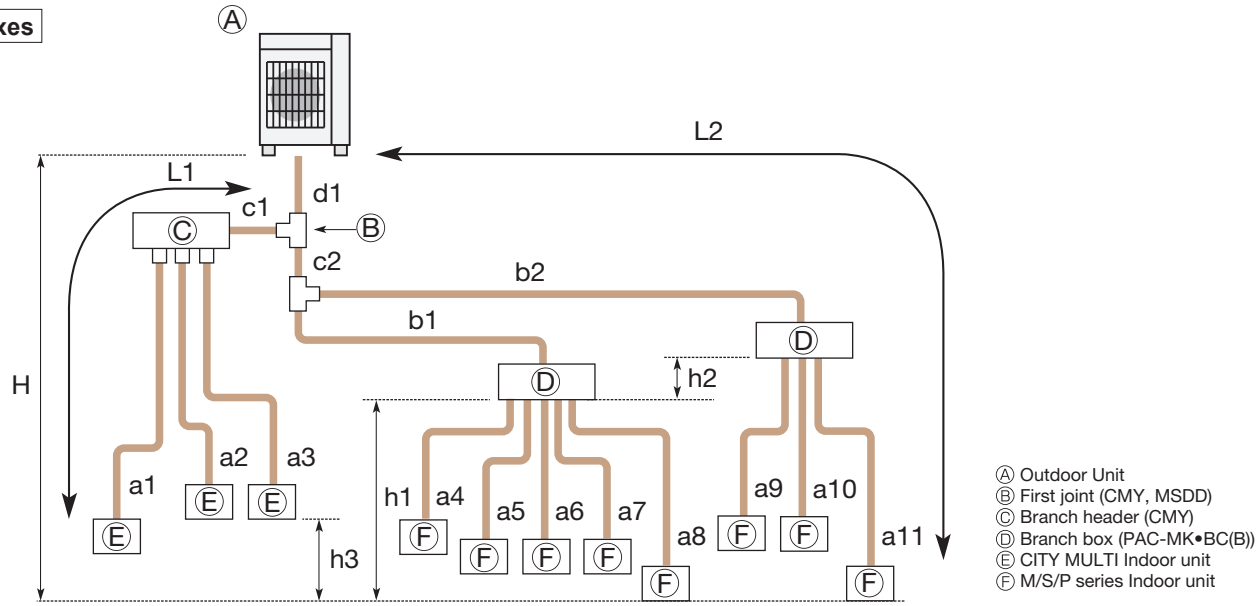
1-Branch box



Permissible length (One-way)	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 120 m
	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 difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 30 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		|e1 + d2 + a1|, |e1 + d2 + a2|, |e1 + d2 + a3|, |e1 + d1 + c2|, |e1 + d1 + c1 + b2|, |e1 + d1 + c1 + b1 + a4|, |e1 + d1 + c1 + b1 + a5|, |e1 + d1 + c1 + b1 + a6|, |e1 + d1 + c1 + b1 + a7|, |e1 + d1 + c1 + b1 + a8|≦ 15

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

2-Branch boxes

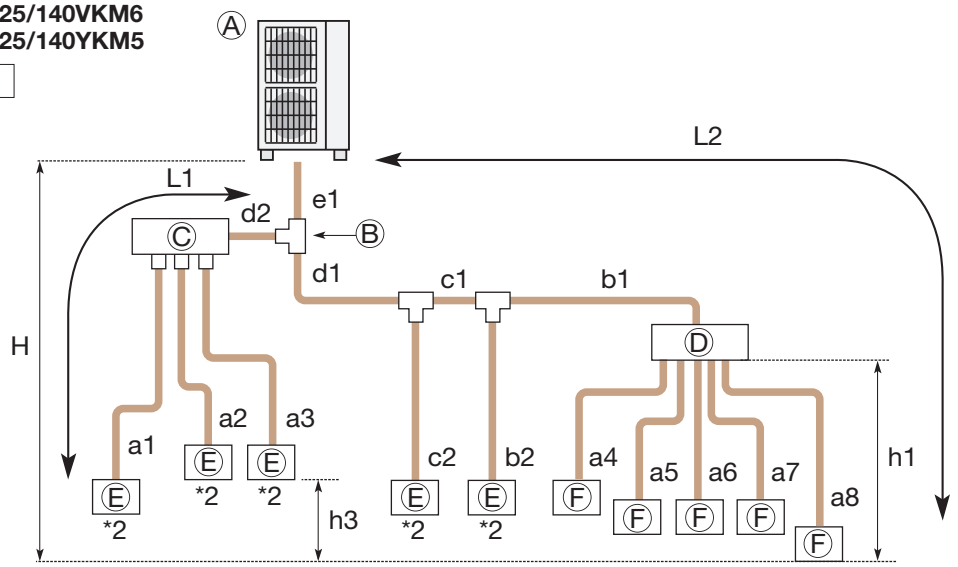


Permissible length (One-way)	Total piping length	d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11≦ 120 m
	Farthest piping length (L1)	d1 + c1 + a1≦ 70 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11≦ 80 m
	Piping length between outdoor unit and branch 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 ≦ 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 + a6|, |d1 + c2 + b1 + a7|, |d1 + c2 + b1 + a8|, |d1 + c2 + b2 + a9|, |d1 + c2 + b2 + a10|, |d1 + c2 + b2 + a11|≦ 15

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

PUMY-P112/125/140VKM6
PUMY-P112/125/140YKM5

1-Branch box

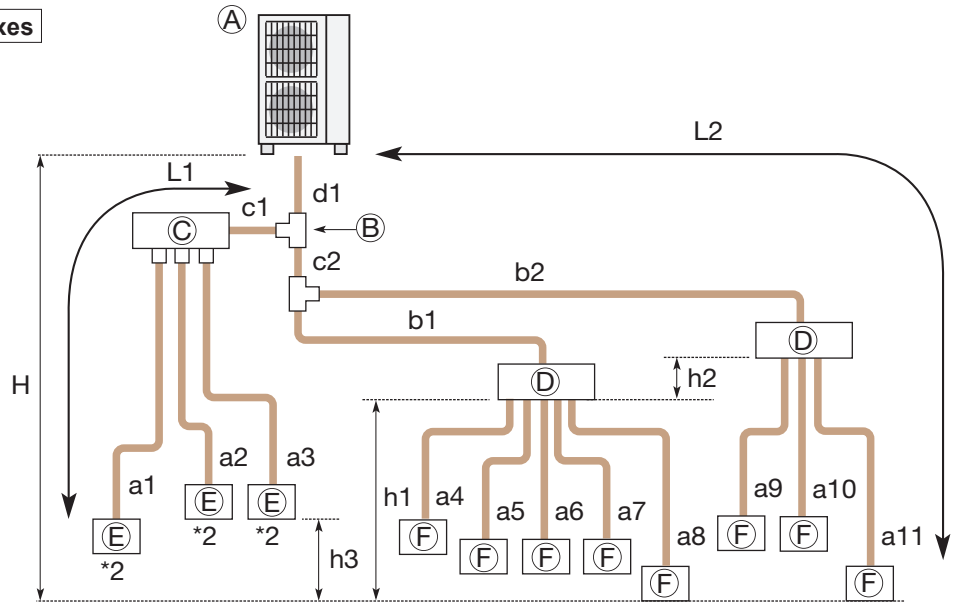


Ⓐ Outdoor Unit
Ⓑ First joint
Ⓒ Branch header (CMY)
Ⓓ Branch box
Ⓔ CITY MULTI Indoor unit
Ⓕ M/S/P series Indoor unit

Permissible length (One-way)	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 300 m
	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2≦ 85 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 55 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 30 m
	Farthest piping length after branch box	a8≦ 25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m
Permissible height difference (One-way)	In indoor/outdoor section (H)*1	H≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1≦ 15 m
	In each indoor unit (h3)	h3≦ 12 m
Number of bends		|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.

2-Branch boxes



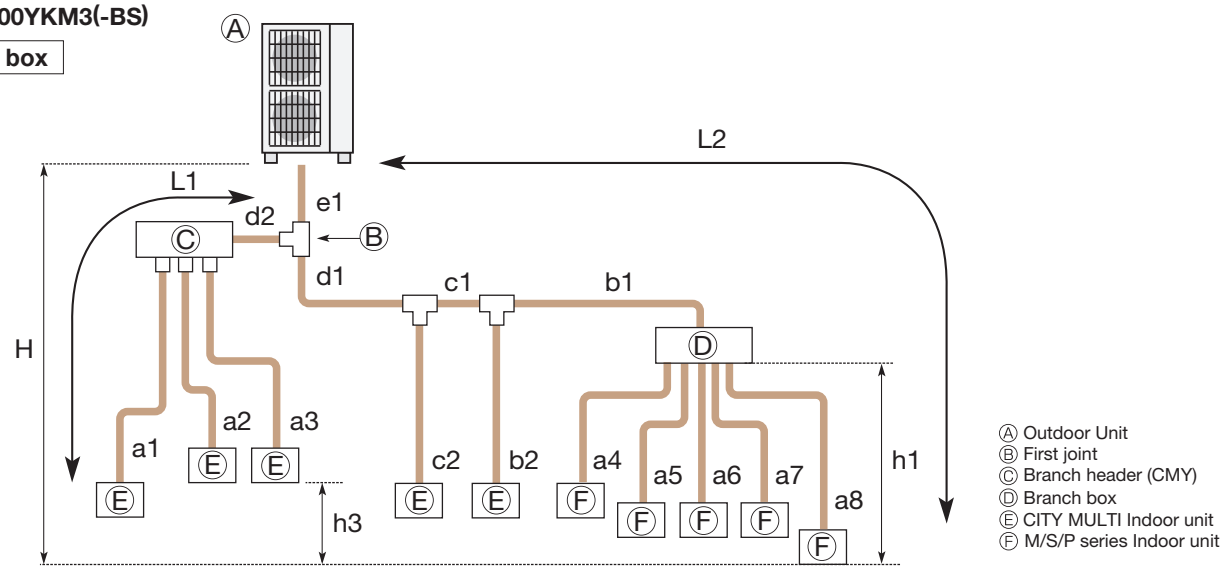
Ⓐ Outdoor Unit
Ⓑ First joint
Ⓒ Branch header (CMY)
Ⓓ Branch box
Ⓔ CITY MULTI Indoor unit
Ⓕ M/S/P series Indoor unit

Permissible length (One-way)	Total piping length	d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11≦ 240 m
	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 (One-way)	In indoor/outdoor section (H)*1	H≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 + h2≦ 15 m
	In each branch unit (h2)	h2≦ 15 m
	In each indoor unit (h3)	h3≦ 12 m
Number of bends		|d1 + c1 + a1|, |d1 + c1 + a2|, |d1 + c1 + a3|, |d1 + c2 + b1 + a4|, |d1 + c2 + b1 + a5|, |d1 + c2 + b1 + a6|, |d1 + c2 + b1 + a7|, |d1 + c2 + b1 + a8|, |d1 + c2 + b2 + a9|, |d1 + c2 + b2 + a10|, |d1 + c2 + b2 + a11|≦ 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.

PUMY-P200YKM3(-BS)

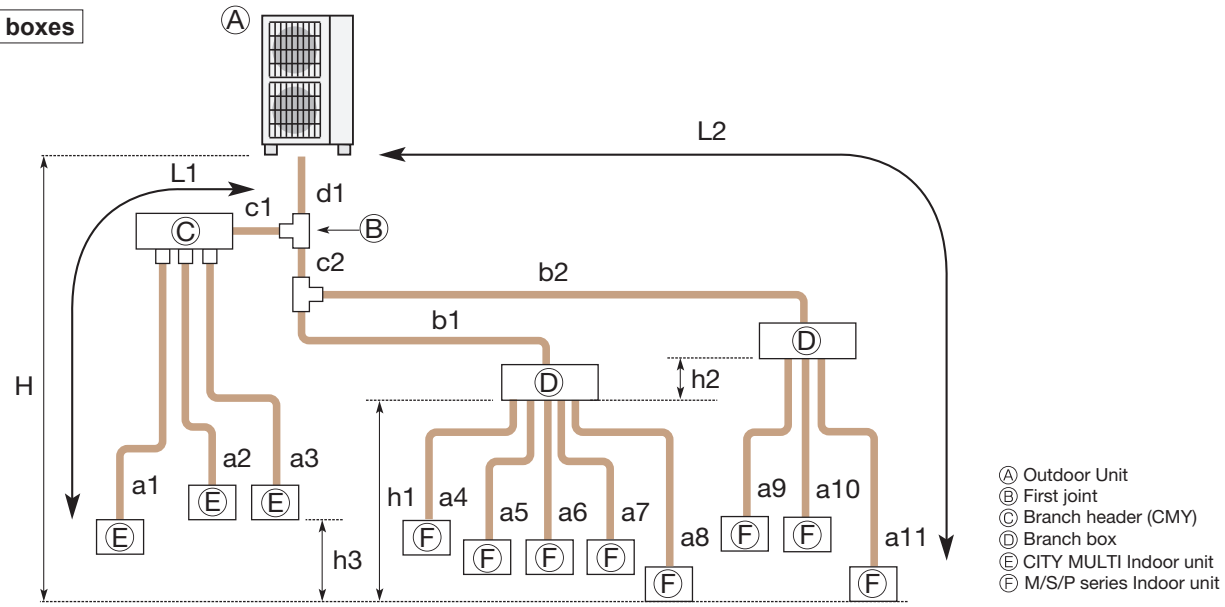
1-Branch box



Permissible length (One-way)	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 150 m
	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2≦ 80 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 55 m
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 30 m
	Farthest piping length after branch box	a8 ≦ 25 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m
Permissible height difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		|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-Branch boxes

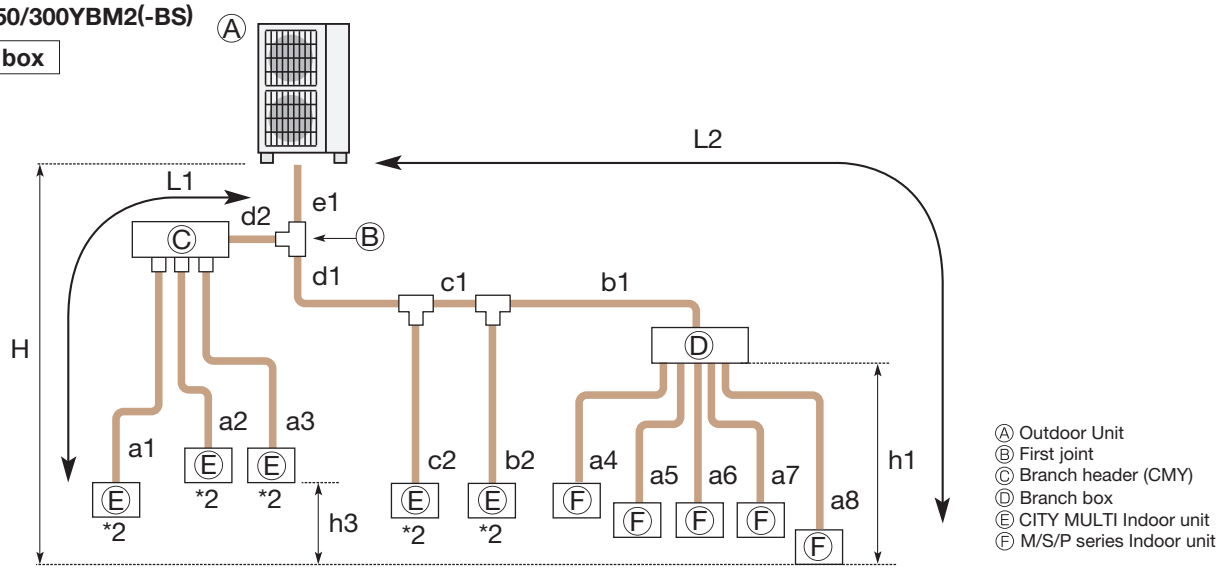


Permissible length (One-way)	Total piping length	d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 150 m
	Farthest piping length (L1)	d1 + c1 + a1≦ 80 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11≦ 80 m
	Piping length between outdoor unit and branch 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 (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m
	In each branch unit (h2)	h2 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		|d1 + c1 + a1|, |d1 + c1 + a2|, |d1 + c1 + a3|, |d1 + c2 + b1 + a4|, |d1 + c2 + b1 + a5|, |d1 + c2 + b1 + a6|, |d1 + c2 + b1 + a7|, |d1 + c2 + b1 + a8|, |d1 + c2 + b2 + a9|, |d1 + c2 + b2 + a10|, |d1 + c2 + b2 + a11|≦ 15

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

PUMY-P250/300YBM2(-BS)

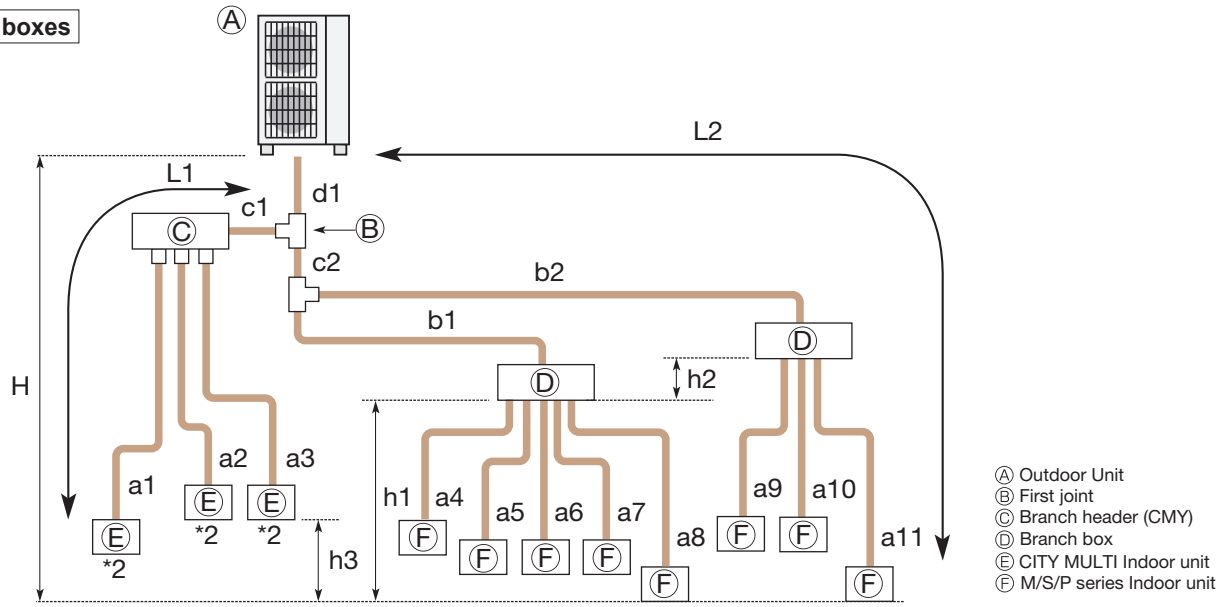
1-Branch box



Permissible length (One-way)	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 310 m
	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2≦ 85 m
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8≦ 80 m
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 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 difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		|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|≦ 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.

2-Branch boxes

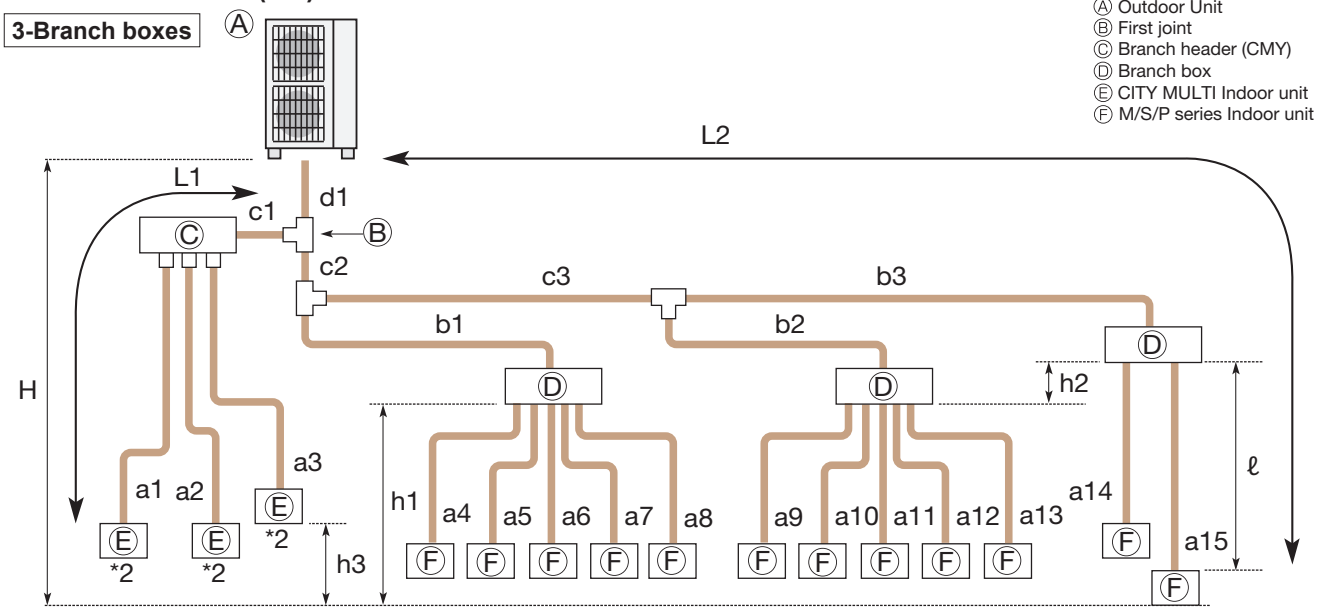


Permissible length (One-way)	Total piping length	d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 310 m
	Farthest piping length (L1)	d1 + c1 + a1≦ 85 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11≦ 80 m
	Piping length between outdoor unit and branch 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 difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section	h1 + h2 ≦ 15 m
	In each branch unit (h2)	h2 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		|d1 + c1 + a1|, |d1 + c1 + a2|, |d1 + c1 + a3|, |d1 + c2 + b1 + a4|, |d1 + c2 + b1 + a5|, |d1 + c2 + b1 + a6|, |d1 + c2 + b1 + a7|, |d1 + c2 + b1 + a8|, |d1 + c2 + b2 + a9|, |d1 + c2 + b2 + a10|, |d1 + c2 + b2 + a11|≦ 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..

PUMY-P250/300YBM2(-BS)

3-Branch boxes

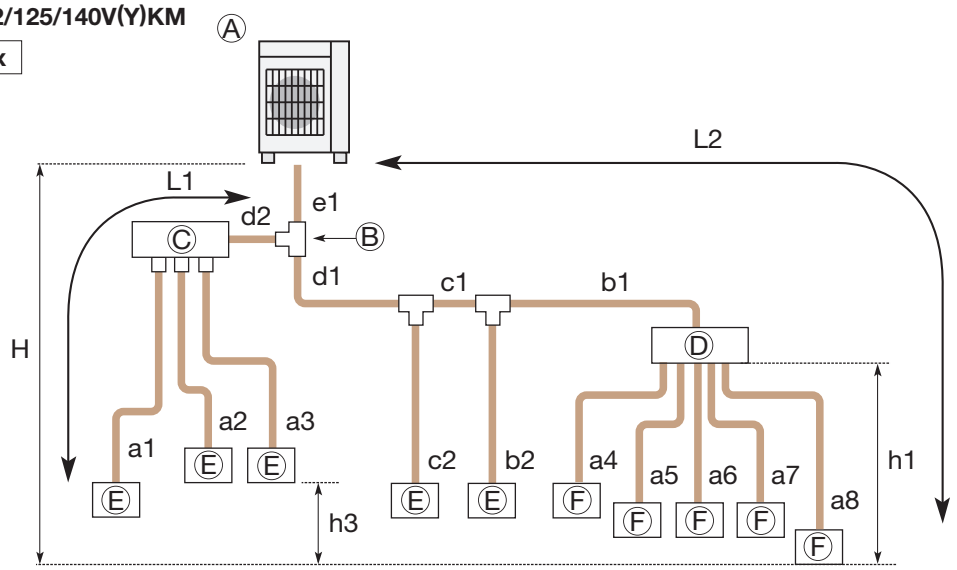


Permissible length (One-way)	Total piping length	d1 + c1 + c2 + c3 + b1 + b2 + b3 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 + a12 + a13 + a14 + a15 ≦ 310 m
	Farthest piping length (L1)	d1 + c1 + a1 ≦ 85 m
	Farthest piping length. Via Branch box (L2)	d1 + c2 + c3 + b3 + a15 ≦ 80 m
	Piping 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 difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section	h1 + h2 ≦ 15 m
	In each branch unit (h2)	h2 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		|d1 + c1 + a1| , |d1 + c1 + a2| , |d1 + c1 + a3|, |d1 + c2 + b1 + a4| , |d1 + c2 + b1 + a5|, |d1 + c2 + b1 + a6|, |d1 + c2 + b1 + a7|, |d1 + c2 + b1 + a8|, |d1 + c2 + 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| ≦ 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.

PUMY-SM112/125/140V(Y)KM

1-Branch box

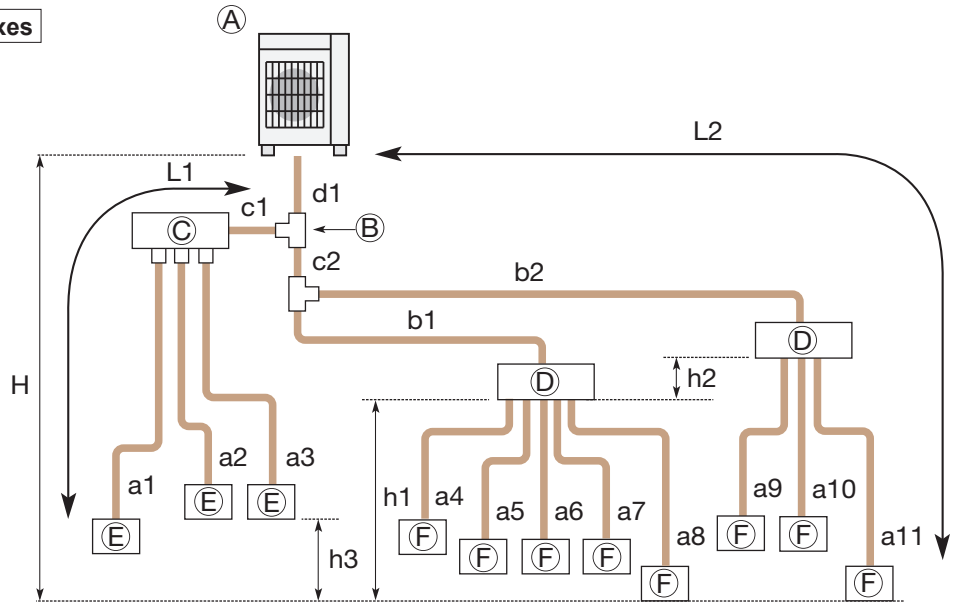


Ⓐ Outdoor Unit
Ⓑ First joint (CMY, MSDD)
Ⓒ Branch header (CMY)
Ⓓ Branch box (PAC-MK•BC(B))
Ⓔ CITY MULTI Indoor unit
Ⓕ M/S/P series Indoor unit

Permissible length (One-way)	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 120 m
	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 difference (One-way)	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		|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-Branch boxes



Ⓐ 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 (One-way)	Total piping length	d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 120 m
	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 ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
		H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)
	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m
	In each branch unit (h2)	h2 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		|d1 + c1 + a1|, |d1 + c1 + a2|, |d1 + c1 + a3|, |d1 + c2 + b1 + a4|, |d1 + c2 + b1 + a5|, |d1 + c2 + b1 + a6|, |d1 + c2 + b1 + a7|, |d1 + c2 + b1 + a8|, |d1 + c2 + b2 + a9|, |d1 + c2 + b2 + a10|, |d1 + c2 + b2 + a11|≦ 15

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

Explanation of Terminology

Maximum piping length:
This is the maximum allowable length of the refrigerant piping. The amount of refrigerant pipe used cannot be longer than the length specified.

Total length:
The maximum allowable combined length of all the refrigerant piping between the outdoor unit and indoor unit(s).

Outdoor Unit - Indoor Unit:
The maximum allowable length of the refrigerant piping between the outdoor unit and indoor units installed when multiple units are connected to a single outdoor unit. This distance limitation refers to the maximum length between the outdoor unit and the farthest indoor unit.

Pipe length difference from distribution pipe:
The maximum allowable difference in refrigerant piping length from the distribution pipe to the farthest indoor unit and from the distribution pipe to the closest indoor unit when multiple indoor units are connected to a single outdoor unit using a distribution pipe.

Indoor Unit - Distribution Pipe:
The maximum allowable length of the refrigerant piping between indoor units and the distribution pipe when multiple indoor units are connected to a single outdoor unit.

Maximum height difference:
This is the maximum allowable height difference. It is necessary to install the air conditioning system so that the height distance is no more than the difference specified. (Specified differences may vary if the outdoor unit is installed higher or lower than the indoor units).

Outdoor unit - Indoor unit:
The maximum allowable difference in height between the outdoor unit and indoor units when installed (when multiple indoor units are connected to a single outdoor unit, this distance limitation refers to the maximum height difference between the outdoor unit and an indoor unit).

Indoor unit - Indoor unit:
The maximum allowable difference between the heights of indoor units when multiple indoor units are connected to a single outdoor unit.

Maximum number of bends:
This is the maximum allowable number of bends in the refrigerant piping. The total number of bends in the refrigerant piping used cannot exceed the number specified.

Total number:
The maximum allowable number of bends for all refrigerant piping between the outdoor unit and indoor units.

Outdoor unit - Indoor unit:
The maximum allowable number of bends between the outdoor unit and each indoor unit when multiple indoor units are connected to a single outdoor unit.

Appendix

Indoor Unit				Please refer below (*1)					
Outdoor Unit				MXZ-3HA50VF2	MXZ-4F80VF4	MXZ-4F83VF2	MXZ-4F83VFHZ2	MXZ-2F42VF4	MXZ-3F68VF4
Refrigerant/GWP				R32/675 (*2)					
Power Supply	Source			Outdoor power supply					
	Outdoor (V/Phase/Hz)			220-230-240V/Single/50Hz					
Cooling	Capacity	Rated	kW	5.00	6.80	7.80	8.30	4.00	6.20
	Input	Rated	kW	1.47	2.20	2.65	2.78	1.05	2.07
	Design load		kW	5.00	6.80	7.80	8.30	4.00	6.20
	Annual electricity consumption (*3)		kWh/a	257.00	345.00	404.00	473.00	183.00	350.00
	SEER (*4)			6.80	6.90	6.80	6.14	7.64	6.21
		Energy efficiency class (*4)		A++	A++	A++	A++	A++	A++
Heating	Capacity	Rated	kW	6.00	8.60	9.00	9.00	4.40	8.00
	Input	Rated	kW	1.56	2.60	2.30	2.74	1.13	2.53
	Design load		kW	3.80	7.00	7.00	9.00	3.20	6.80
	Annual electricity consumption (*3)		kWh/a	1324.00	2492.00	2336.00	3155.00	1172.00	2498.00
	SCOP (*4)			4.02	3.93	4.20	4.00	3.82	3.81
		Energy efficiency class (*4)		A+	A	A+	A+	A	A
Outdoor Unit	Dimensions	H*W*D	mm	710 - 840 - 330 (+66)	710 - 840 - 330 (+66)	796 - 950 - 330	1048 - 950 - 330	550 - 800 (+69) - 285 (+59.5)	710 - 840 - 330 (+66)
	Weight		kg	57	59	62	86	37	58
	Air Volume	Cooling	m^3/min	31.0	40.3	57	63	28.4	35.4
		Heating	m^3/min	29.1	44.1	62	77	33.5	39.6
	Sound Level (SPL)	Cooling	dB (A)	46	50	49	55	44	48
		Heating	dB (A)	50	55	51	57	50	53
	Sound Level (PWL)	Cooling	dB (A)	61	65	61	66	59	63
	Breaker Size		A	25	25	25	30	15	25
Ext. Piping	Port diameter	Liquid	mm	6.35×3	6.35×4	6.35×4	6.35×4	6.35×2	6.35×3
		Gas	mm	9.52×3	12.7×1+9.52×3	12.7×1+9.52×3	12.7×1+9.52×3	9.52×2	9.52×3
	Total piping length (Max.)		m	50	60	70	70	30	60
	Each indoor unit piping length (Max.)		m	25	25	25	25	20	25
	Max. Height		m	15 (10) (*5)	15 (10) (*5)	15	15	15 (10) (*5)	15 (10) (*5)
	Chargeless length		m	40	60	70	70	30	60
Guaranteed Operating Range (Outdoor)		Cooling	℃	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	℃	-15 ~ +24	-15 ~ +24	-15 ~ +24	-25 ~ +24	-15 ~ +24	-15 ~ +24

Indoor Unit				Please refer below (*1)				
Outdoor Unit				MXZ-4F72VF4	MXZ-5F102VF2	MXZ-6F120VF2	PXZ-4F75VG	PXZ-5F85VG
Refrigerant/GWP				R32/675 (*2)				
Power Supply	Source			Outdoor power supply				
	Outdoor (V/Phase/Hz)			220-230-240V/Single/50Hz			230V/1 phase/50Hz	
Cooling	Capacity	Rated	kW	6.40	8.30	8.30	6.40	7.80
	Input	Rated	kW	1.99	3.05	2.78	1.99	2.65
	Design load		kW	6.40	8.30	8.30	6.40	7.80
	Annual electricity consumption (*3)		kWh/a	297.00	450.00	473.00	297.00	404.00
	SEER (*4)			7.54	6.46	6.14	7.54	6.76
		Energy efficiency class (*4)		A++	A++	A++	A++	A++
Heating	Capacity	Rated	kW	8.60	9.00	9.00	8.60	9.00
	Input	Rated	kW	2.23	2.30	2.74	2.23	2.30
	Design load		kW	7.00	7.00	9.00	7.00	7.00
	Annual electricity consumption (*3)		kWh/a	2406.00	2423.00	3159.00	2406.00	2336.00
	SCOP (*4)			4.07	4.05	3.99	4.07	4.20
		Energy efficiency class (*4)		A+	A+	A	A+	A+
Outdoor Unit	Dimensions	H*W*D	mm	710 - 840 - 330 (+66)	796 - 950 - 330	1048 - 950 - 330	710 - 840 (+30) - 330 (+66)	796 - 950 - 330
	Weight		kg	59	62	87	59	62
	Air Volume	Cooling	m^3/min	35.4	63	63	35.4	57
		Heating	m^3/min	42.7	75	77	42.7	62
	Sound Level (SPL)	Cooling	dB (A)	48	52	55	48	49
		Heating	dB (A)	54	56	57	54	51
	Sound Level (PWL)	Cooling	dB (A)	63	65	69	63	61
	Breaker Size		A	25	25	32	25	25
Ext. Piping	Port diameter	Liquid	mm	6.35×4	6.35×5	6.35×6	6.35×4	6.35×5
		Gas	mm	12.7×1+9.52×3	12.7×1+9.52×4	12.7×1+9.52×5	12.7×1+9.52×3	12.7×1+9.52×4
	Total piping length (Max.)		m	60	80	80	60	70
	Each indoor unit piping length (Max.)		m	25	25	25	30	30
	Max. Height		m	15 (10) (*5)	15	15	20	20
	Chargeless length		m	60	80	80	60	70
Guaranteed Operating Range (Outdoor)		Cooling	℃	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
		Heating	℃	-15 ~ +24	-15 ~ +24	-15 ~ +24	-20 ~ +24	-20 ~ +24

(*1) This combination data is the SPEC when the following indoor units are connected, and is registered with Eurovent.
MXZ-3HA50VF2 → MSZ-HR25VF×2
MXZ-4F80VF4 → MSZ-AY42VG/MSZ-LN35VG2
MXZ-4F83VF2 → MSZ-AY42VG/MSZ-AY42VG
MXZ-4F83VFHZ2 → MSZ-AY42VG/MSZ-AY42VG
MXZ-2F42VF4 → MSZ-AY20VGK×2
MXZ-3F68VF4 → MSZ-AY20VG/MSZ-AY50VG
MXZ-4F72VF4 → MSZ-LN35VG2/MSZ-LN35VG2
PXZ-4F75VG → MSZ-LN35VG2/MSZ-LN35VG2
PXZ-5F85VG → MSZ-AY42VG/MSZ-AY42VG
MXZ-5F102VF2 → MSZ-AY42VG/MSZ-AY50VG
MXZ-6F120VF2 → MSZ-AY42VG/MSZ-AY42VG
(*2) This GWP value is based on Regulation(EU) No 517/2014 from IPCC 4th edition.
(*3) Energy consumption based on standard test results.
Actual energy consumption will depend on how the appliance is used and where it is located.
(*4) SEER/SCOP values and energy efficiency class are measured when connected to the indoor units listed below.
(*5) If the outdoor unit is installed higher than the indoor unit, max. height is reduced to 10m.

Conditions for specifications

Temperature conditions are based on ISO 5151.

Cooling	Indoor	27˚C DB, 19˚C WB
	Outdoor	35˚C DB, 24˚C WB
Heating	Indoor	20˚C DB
	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, VDA: 230V/Single phase/50Hz YA, YHA, YKA, YDA: 400V/Three phase/50Hz
PEA Series	400V/Three phase/50Hz	400V/Three phase/50Hz

Sound pressure level
- The sound pressure measurement is conducted in an anechoic chamber.
- The actual sound level depends on the distance from the unit and the acoustic environment.

How to read a model name

1) M & S Series

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

3) MXZ Series

M	M Series
X	Multi-system outdoor unit (heat pump)
Z	Inverter heat pump
–	
4	Maximum number of connectable indoor units
D/E/F/HJ/DM/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

M/S/P/Multi/Zubadan/ATW

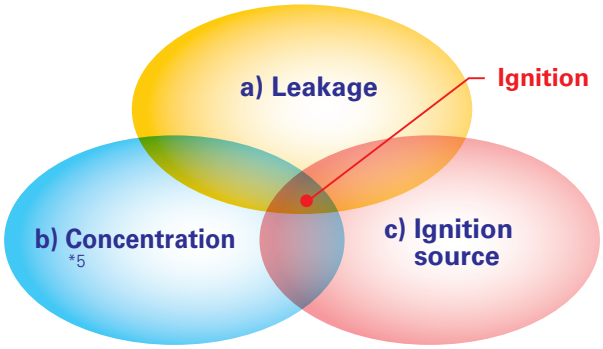
	Model Name	Refrigerant		Pre-charged quantity		Max. added quantity	
			GWP	Weight [kg]	CO_2 equivalent [t]	Weight [kg]	CO_2 equivalent [t]
M-Series	MUZ-RZ25VU	R290	3	pending	pending	pending	pending
	MUZ-RZ25VUHZ	R290	3	pending	pending	pending	pending
	MUZ-RZ35VU	R290	3	0.39	0.01	0.49	0.01
	MUZ-RZ35VUHZ	R290	3	0.39	0.01	0.49	0.01
	MUZ-RZ50VUHZ	R290	3	0.70	0.01	0.85	0.01
	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	R32	675	1.25	0.85	0.10	0.07
	MUZ-LN60VG	R32	675	1.45	0.98	0.46	0.32
	MUZ-LN25VGHZ	R32	675	1.00	0.68	0.26	0.18
	MUZ-LN35VGHZ	R32	675	1.00	0.68	0.26	0.18
	MUZ-LN50VGHZ	R32	675	1.45	0.98	0.46	0.32
	MUZ-FT25VGHZ	R32	675	0.85	0.58	0.25	0.17
	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	0.34	0.25	0.18
	MUZ-AY20VG	R32	675	0.55	0.37	0.25	0.18
	MUZ-AY25VG	R32	675	0.55	0.37	0.26	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	1.05	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
	MUZ-BT20VG	R32	675	0.45	0.30	0.26	0.18
	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	R32	675	0.8	0.54	0.8	0.54
	MXZ-2F42VF4	R32	675	1.0	0.675	1.0	0.675
	MXZ-2F53VF(H)4	R32	675	1.0	0.675	1.0	0.675
	MXZ-3F54VF4	R32	675	2.4	1.62	2.4	1.62
	MXZ-3F68VF4	R32	675	2.4	1.62	2.4	1.62
	MXZ-4F72VF4	R32	675	2.4	1.62	2.4	1.62
	MXZ-4F80VF4	R32	675	2.4	1.62	2.4	1.62
	MXZ-4F83VF2	R32	675	2.4	1.62	2.4	1.62
	MXZ-5F102VF2	R32	675	2.4	1.62	2.4	1.62
	MXZ-6F120VF2	R32	675	2.4	1.62	2.4	1.62
	MXZ-2F53VFHZ2	R32	675	2.4	1.62	2.4	1.62
	MXZ-4F83VFHZ2	R32	675	2.4	1.62	2.4	1.62
	MXZ-2HA40VF2	R32	675	0.9	0.61	0.9	0.61
	MXZ-2HA50VF2	R32	675	0.9	0.61	0.9	0.61
	MXZ-3HA50VF2	R32	675	1.4	0.95	1.6	1.08

	Model Name	Refrigerant		Pre-charged quantity		Max. added quantity	
			GWP	Weight [kg]	CO_2 equivalent [t]	Weight [kg]	CO_2 equivalent [t]
S-Series	SUZ-M25VA	R32	675	0.65	0.44	0.26	0.18
	SUZ-M35VA	R32	675	0.90	0.61	0.26	0.18
	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
P-Series	PUZ-ZM35VKA2	R32	675	2.0	1.35	0.3	0.20
	PUZ-ZM50VKA2	R32	675	2.0	1.35	0.3	0.20
	PUZ-ZM60VHA2	R32	675	2.8	1.89	0.8	0.54
	PUZ-ZM71VHA2	R32	675	2.8	1.89	0.8	0.54
	PUZ-ZM100VDA	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM100YDA	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM125VDA	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM125YDA	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM140VDA	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM140YDA	R32	675	3.6	2.43	2.4	1.62
	PUZ-ZM200YKA2	R32	675	6.3	4.25	9.2	6.21
	PUZ-ZM250YKA2	R32	675	6.8	4.59	9.2	6.21
	PUZ-M100VKA2	R32	675	3.1	2.1	4.8	0.7
	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	R32	675	5.6	3.78	1.4	1.08
	PUZ-M250YKA2	R32	675	6.8	4.59	1.6	1.62
PUMY	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	2088	4.8	10.02	13.8	28.81
	PUMY-P125VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	PUMY-P140VKM5(-BS)	R410A	2088	4.8	10.02	13.8	28.81
	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)	R410A	2088	9.3	19.42	32.1	67.03
	PUMY-SM112VKM(-BS)	R32	675	3.0	2.03	7.5	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
ATW Packaged	PUZ-WM50VHA	R32	675	2.0	1.35	–	–
	PUZ-WM60VAA	R32	675	2.2	1.49	–	–
	PUZ-WM85V/YAA	R32	675	2.2	1.49	–	–
	PUZ-WM112V/YAA	R32	675	3.0	2.03	–	–
	PUZ-HWM140V/YHA	R32	675	3.3	2.2275	–	–
ATW Split	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	R32	675	1.6	1.08	0.23	0.16
	PUD-SWM120V/YAA	R32	675	1.6	1.08	0.23	0.16
	PUD-SHWM60VAA	R32	675	1.4	0.945	0.3	0.20
	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	R410A	2088	7.1	14.83	4.0	8.36
	PUHZ-SW200YKA	R410A	2088	7.7	16.08	5.2	8.36
	PUHZ-SHW230YKA2	R410A	2088	7.1	14.83	8.4	17.54

R32 REFRIGERANT

R32 REFRIGERANT PROPERTIES

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



	R32	R410A	R22
Chemical formula	CH_2F_2	CH_2F_2/CHF_2CF_3	$CHClF_2$
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.

⚠ 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.

⚠ 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 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[kg]	Amin [m²]
0.7	1.7
0.8	2.0
0.9	2.2
1.0	2.5
1.1	2.7
1.2	3.0
1.3	3.2
1.4	3.4
1.5	3.7
1.6	3.9
1.7	4.2
1.8	4.4
1.9	4.6
2.0	4.9

<P Series> ①

M[kg]	Amin [m²]
1.0	4
1.5	6
2.0	8
2.5	10
3.0	12
3.5	14
4.0	16
4.5	20
5.0	24
5.5	29
6.0	35
6.5	41
7.0	47
7.5	54
8.0	62
8.5	69
9.0	78
9.5	87

②

M[kg]	Amin [m²]
<1.84	No requirements
1.84	6
2.0	6
2.5	7
3.0	9
3.5	10
4.0	11
4.5	13
5.0	14
5.5	15
6.0	17
6.5	18
7.0	20
7.5	21
8.0	22
8.5	24
9.0	25
9.5	26

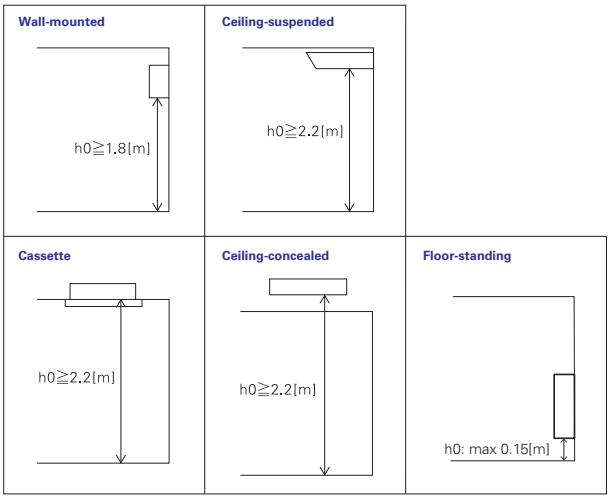
①For wall-mounted, ceiling suspended, cassette and concealed
②For floor-standing (PSA-M)

<MXZ Series>

M[kg]	Amin [m²]
1.0	3
1.5	4.5
2.0	6
2.5	7.5
3.0	9
3.5	12
4.0	15.5
4.5	20
5.0	24
5.5	29
6.0	35
6.5	41
7.0	47
7.5	54

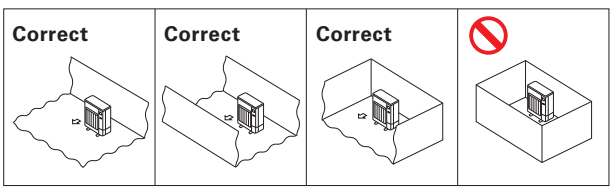
<Only for MFZ-KT/KW>

M[kg]	Amin[m²]
1.00	No requirements
1.50	
1.80	
1.84	3.63
1.90	3.75
2.00	3.95
2.10	4.15
2.20	4.34
2.30	4.54
2.40	4.74



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.



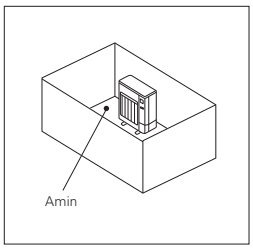
If you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

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

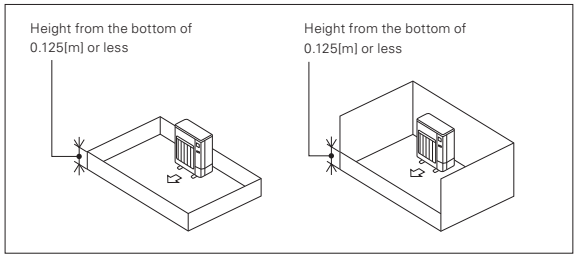
Install in a space with an installation area of Amin* or more, corresponding to refrigerant quantity M. (M = factory-charged refrigerant + locally added refrigerant)

* 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

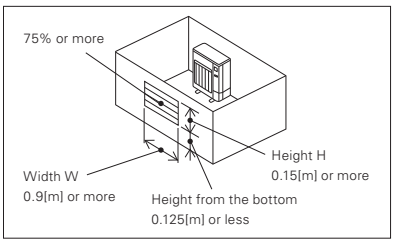


B Install in a space with a depression height of ≦0.125[m].



C Create an appropriate open ventilation area.

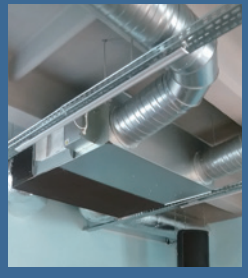
Make sure that the width of the open area is 0.9[m] or more and the height of the open area is 0.15[m] or more.
However, the height from the bottom of the installation space to the bottom edge of the open area should be 0.125[m] or less.
More than 75% of the ventilation area should be open to allow air circulation.



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

●Models with R32 Refrigerant: MSZ-L Series (single connection)

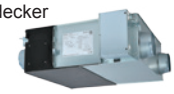
LOSSNAY SYSTEM



SELECTION

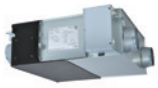
LOSSNAY lineup consists of two types of ventilation: Energy Recovery Ventilation (ERV) and Heat Recovery Ventilation (HRV). Choose the model that best matches your building layout and indoor environment.

LOSSNAY LINEUP

Type	Core	Model \ Airflow		150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1600 CMH	2000 CMH	2500 CMH
LOSSNAY	ERV	LGH-RVX3 Series	Single decker 	●	●	●	●	●	●	●			
			Double decker 								●	●	
	ERV	LGH-RVXT3 Series 									●	●	●
	HRV	LGH-RVS Series 					●		●	●			
LOSSNAY with Dx-Coil Unit	ERV	GUF Series 					●			●			

*ERV = Energy recovery ventilator *HRV = Heat recovery ventilator

PRODUCT LINEUP

Commercial		Residential	
Ceiling Concealed 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. 	LGH-RVXT3 Series ERV Thin, large airflow models of the LGH series that deliver high performance and functions. 	VL-CZPVU Series HRV Vertical type for residential use. Centralized ventilation with sensible heat exchange. 	VL-50(E)S2-E ERV VL-50SR2-E Wall mounted models for smaller air volumes. They may be installed both horizontally and vertically. 
LGH-RVS Series HRV Sensible heat models of the LGH series that can also be installed in sanitary areas. 	GUF Series ERV (LOSSNAY with Dx-Coil Unit) Heat recovery units with a heating and cooling system that uses the CITY MULTI outdoor units as a heat source. 		

*ERV: Enegy recovery ventilator *HRV: Heat recovery ventilator

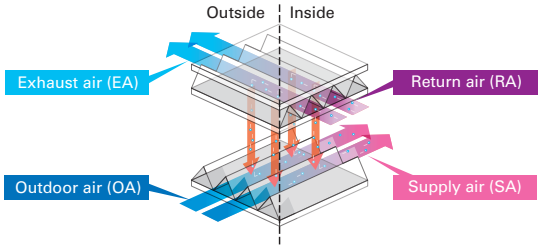
Commercial Use LOSSNAY

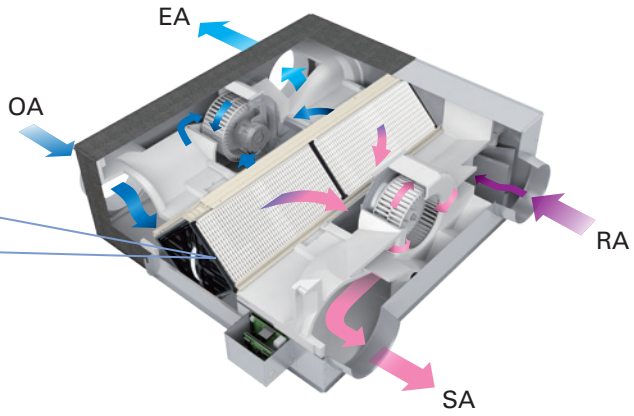
LGH SERIES

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.

● The concept of sensible heat and latent heat exchange using LOSSNAY core



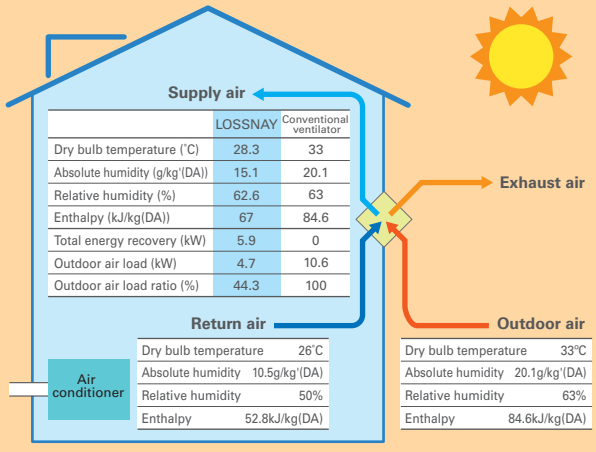


What is Improved by Introducing LOSSNAY?

● Ventilation with maximized comfort

In summer

Air that is similar to the conditions of cooled (dehumidified) indoor air is supplied.



	LOSSNAY	Conventional ventilator
Dry bulb temperature (°C)	28.3	33
Absolute humidity (g/kg'(DA))	15.1	20.1
Relative humidity (%)	62.6	63
Enthalpy (kJ/kg(DA))	67	84.6
Total energy recovery (kW)	5.9	0
Outdoor air load (kW)	4.7	10.6
Outdoor air load ratio (%)	44.3	100

Return air	
Dry bulb temperature	26°C
Absolute humidity	10.5g/kg'(DA)
Relative humidity	50%
Enthalpy	52.8kJ/kg(DA)

Outdoor air	
Dry bulb temperature	33°C
Absolute humidity	20.1g/kg'(DA)
Relative humidity	63%
Enthalpy	84.6kJ/kg(DA)

Heat recovery calculation

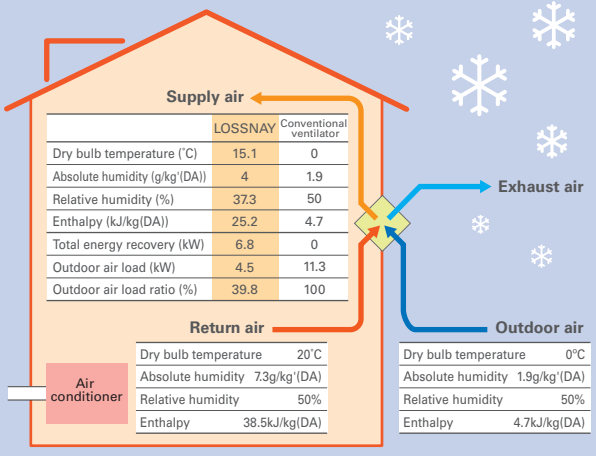
$$\text{Indoor supply air temperature (°C)} = \text{Outdoor temperature (°C)} - \{\text{Outdoor temperature (°C)} - \text{Indoor temperature (°C)}\} \times \text{Temp. recovery efficiency (\%)}$$

Calculation example: 28.3°C = 33°C - (33°C - 26°C) × 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.



	LOSSNAY	Conventional ventilator
Dry bulb temperature (°C)	15.1	0
Absolute humidity (g/kg'(DA))	4	1.9
Relative humidity (%)	37.3	50
Enthalpy (kJ/kg(DA))	25.2	4.7
Total energy recovery (kW)	6.8	0
Outdoor air load (kW)	4.5	11.3
Outdoor air load ratio (%)	39.8	100

Return air	
Dry bulb temperature	20°C
Absolute humidity	7.3g/kg'(DA)
Relative humidity	50%
Enthalpy	38.5kJ/kg(DA)

Outdoor air	
Dry bulb temperature	0°C
Absolute humidity	1.9g/kg'(DA)
Relative humidity	50%
Enthalpy	4.7kJ/kg(DA)

Heat recovery calculation

$$\text{Indoor supply air temperature (°C)} = \{\text{Indoor temperature (°C)} - \text{Outdoor temperature (°C)}\} \times \text{Temp. recovery efficiency (\%)} + \text{Outdoor temperature (°C)}$$

Calculation example: 15°C = (20°C - 0°C) × 75.5% + 0°C

*The above applies to the case of LGH-100RVX3-E. (1000m³/h)

Installation Image

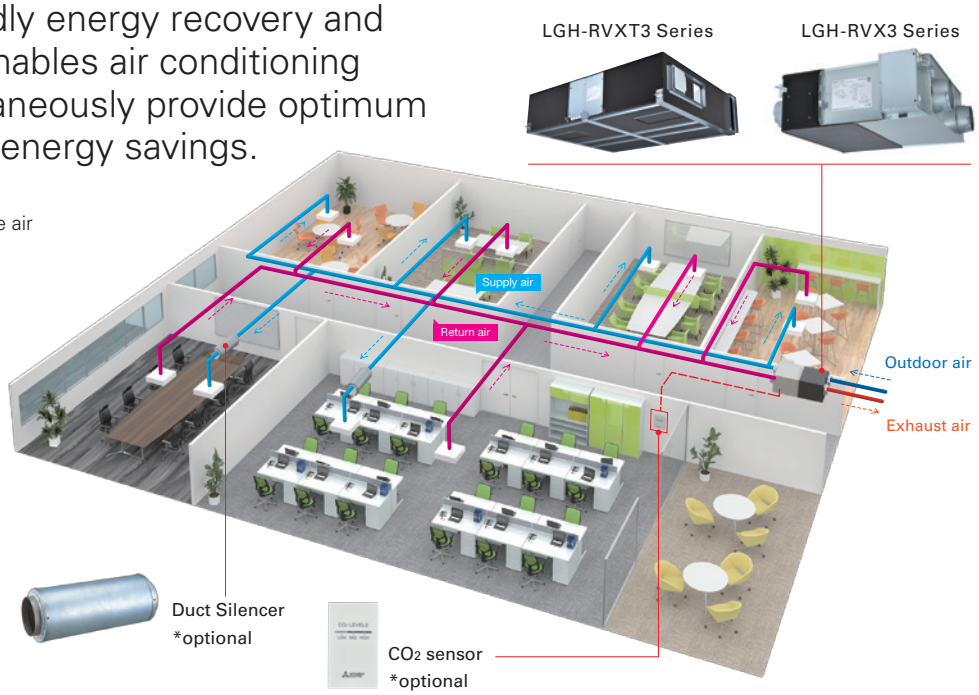
Mitsubishi Electric offers Energy Recovery Ventilation and Heat Recovery Ventilation solutions for optimizing building air quality by using LOSSNAY.

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.

Environment friendly energy recovery and humidity control enables air conditioning systems to simultaneously provide optimum room comfort and energy savings.

- ✓ Total heat exchanger
- ✓ Eliminates excess humidity in the air
- ✓ Wide airflow lineup

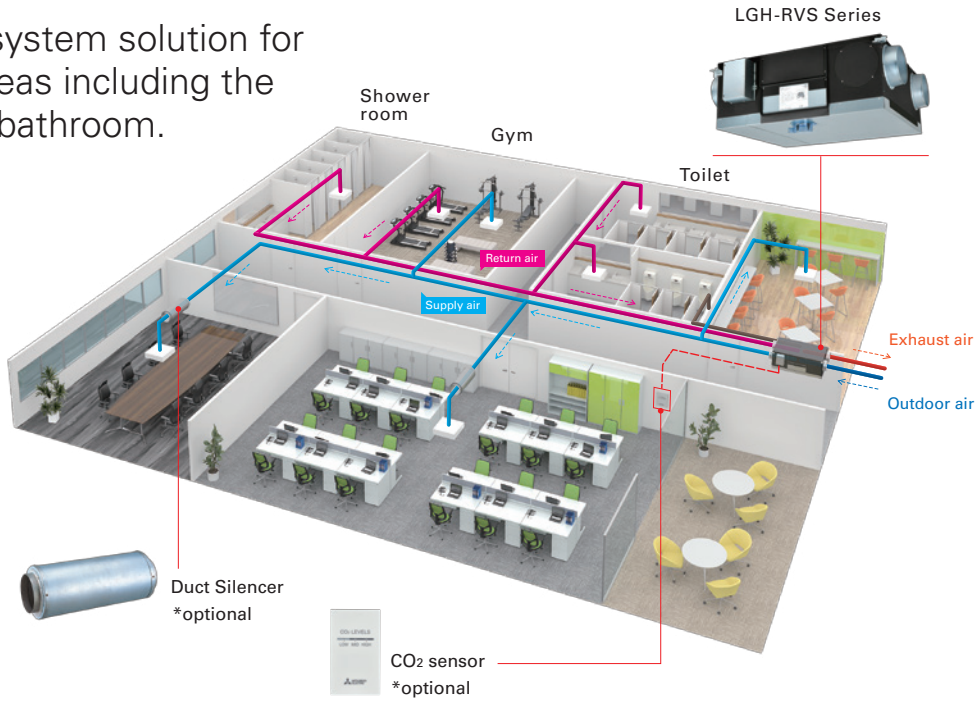


Heat Recovery Ventilation

A heat exchange ventilation system that uses a heat exchanger (LOSSNAY core) to perform temperature (sensible heat) exchange.

Offering the best system solution for ventilation of all areas including the shower room and bathroom.

- ✓ Heat exchanger
- ✓ Installation in sanitary areas
- ✓ CO_2 sensor control

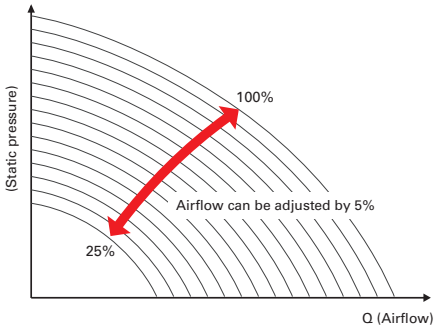


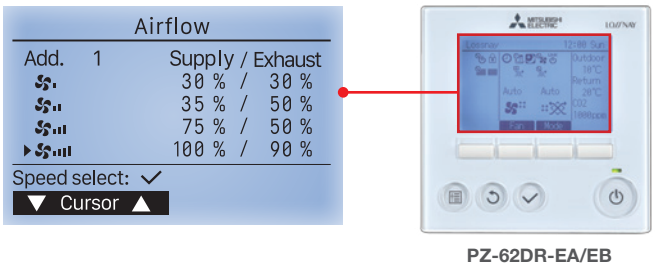
Features of LGH Series

Controllability

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.

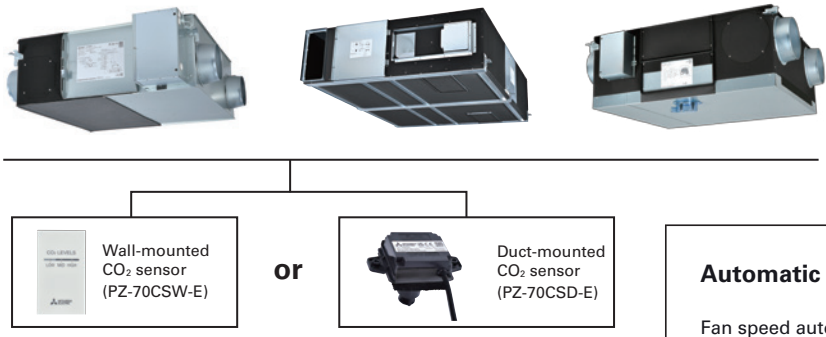




PZ-62DR-EA/EB

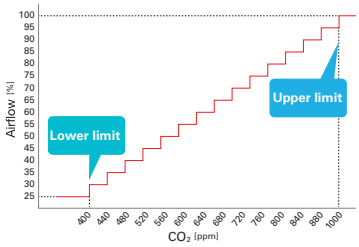
CO_2 sensor

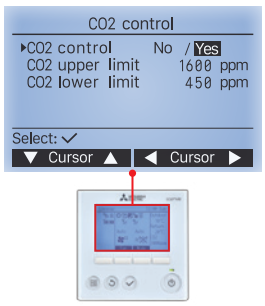
A CO_2 sensor connected directly to a LOSSNAY RVX3 unit optimizes the fan speed according to the detected CO_2 level.
It improves total heat exchange efficiency and contributes to energy savings.



Two types of CO_2 sensors are available: wall-mounted and duct-mounted types.
Power is supplied to the CO_2 sensor from the LOSSNAY board.

Fan speed automatically changes from 25% to 100% (16 steps) depending on the CO_2 concentration level.





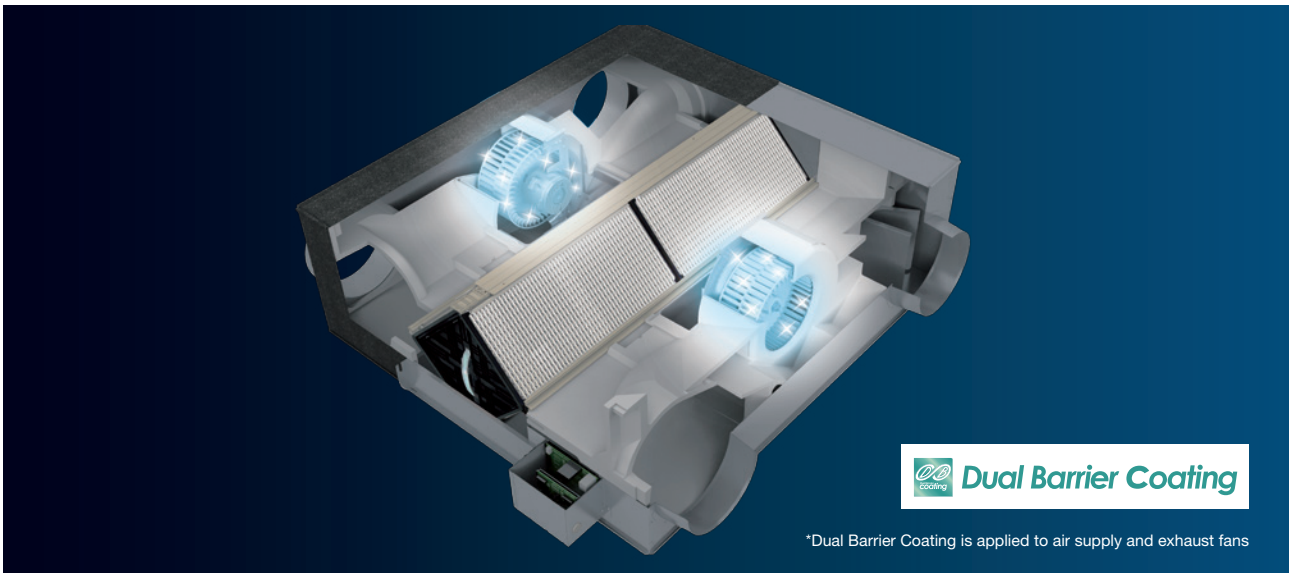
PZ-62DR-EA/EB

Both upper and lower limits can be adjusted.
Upper limit: from 600 to 2000 ppm.
Lower limit: from 300 to (upper limit –300) ppm.
50 ppm increments.

Automatic operation with CO_2 sensor

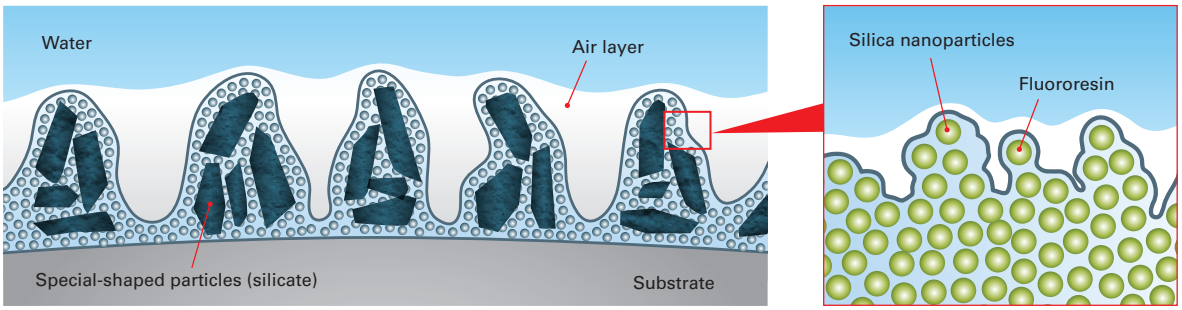
Fan speed automatically changes depending on CO_2 concentration.

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.

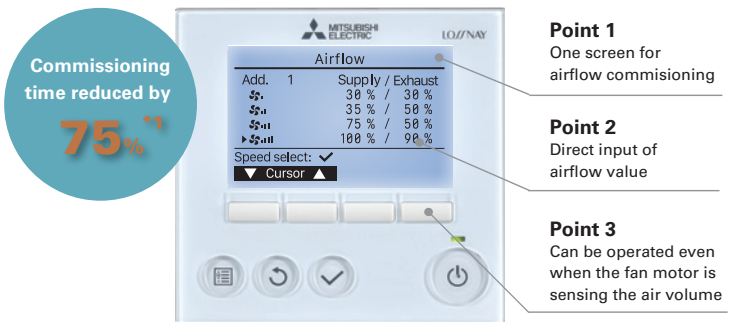
■ Conceptual image of dual barrier coating



Installation Work

Short Commissioning 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.



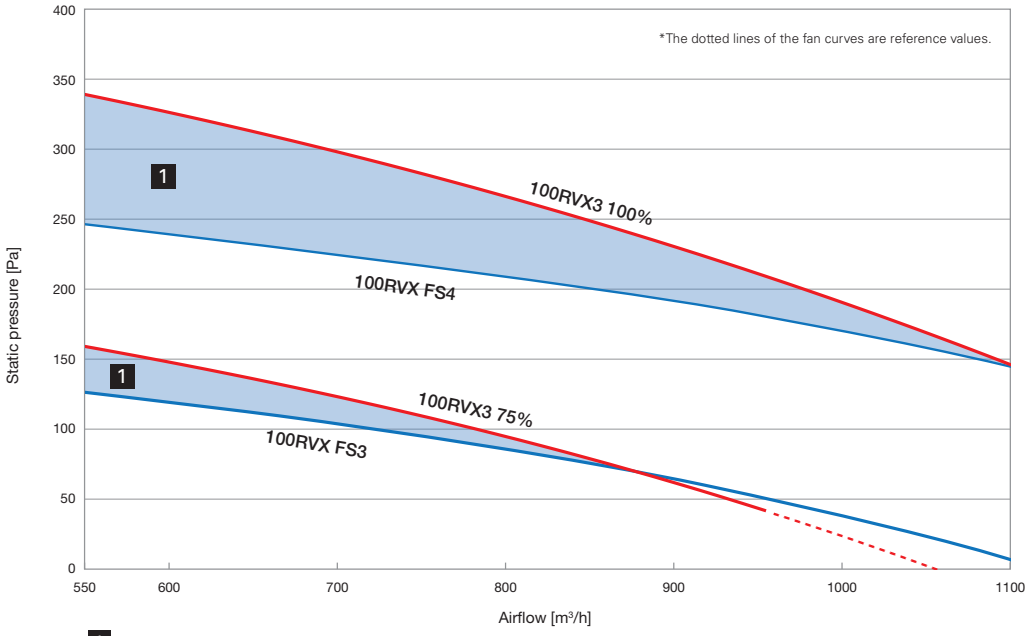
PZ-62DR-EA/EB

*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.

RVX3 SERIES

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.

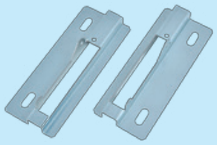


1 Increased static pressure.

Flexible Vertical and Horizonal Installation

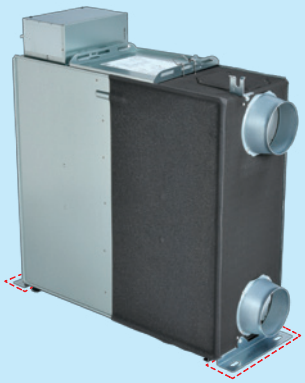
For RVX3 series, vertical installation has become possible for greater flexibility of installation locations. By using optional parts, the unit can be installed in places such as the machine room where only vertical installation is possible.

■Vertical Installation Plates

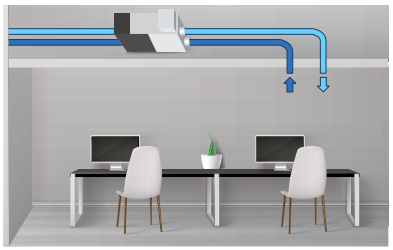


Model name	LOSSNAY
PZ-1VS-E	LGH-15RVX3-E
	LGH-25RVX3-E
	LGH-35RVX3-E
	LGH-50RVX3-E
PZ-2VS-E	LGH-65RVX3-E
	LGH-80RVX3-E
	LGH-100RVX3-E

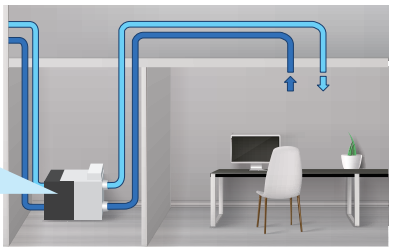
*Not applicable to LGH-160RVX3-E and LGH-200RVX3-E.
*Please follow the installation manual when you install RVX3 series vertically.



Horizontal installation



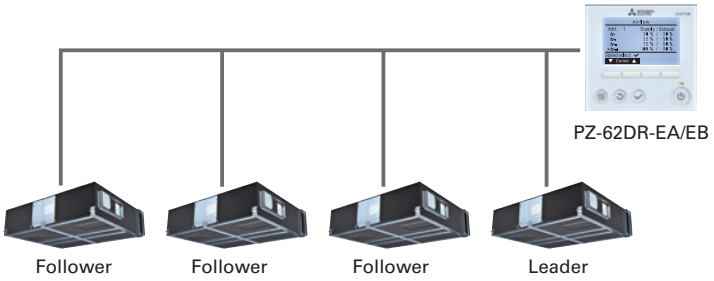
Vertical installation



RVXT3 SERIES

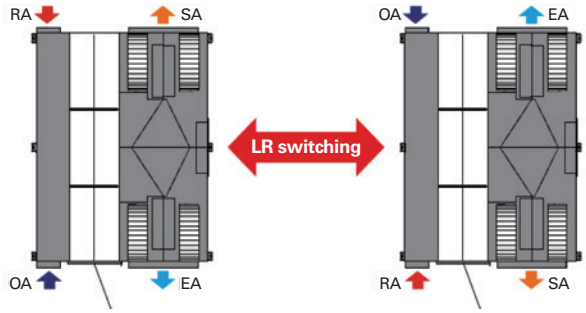
Large Airflow as One Unit: Leader-follower Function

- Multiple LOSSNAY units can be operated in synchronization as a single large airflow unit.
- A maximum of four units can be connected.
  In the case of four LGH-250RVXT3-E units, total air volume is approx. 10,000m³/h.*
  *Actual aiflow depends on system design and site condition.
- Only same model can be in one group.
- PZ-62DR-EA/EB connection is required for this control.
- The maximum number of LOSSNAY units that can be connected in one group is four (one leader unit and three follower units).



Adaptable Installation: LR Switching

- Airflow direction can be changed using DIP switches.
- The indoor (SA/RA) and outdoor (OA/EA) sides can be switched depending on installation space.
- This facilitates ductwork and allows enough space for maintenance.
  *The unit cannot be flipped upside down.

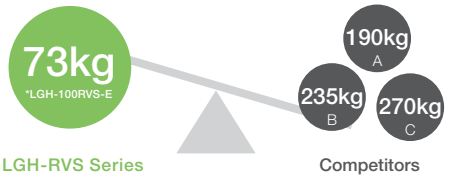


RVS SERIES

Easy Installation

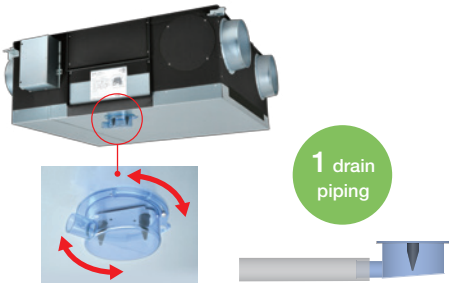
Light frame

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



LOSSNAY with Dx-Coil Unit

GUF SERIES

The GUF Series consists of a heat recovery unit (LOSSANY core) and a DX coil. Along with LOSSANY ventilation, it can be used as a main air conditioner when the load is light, and as a supplemental air conditioner in high load.

These units can be used with R410A.
Outdoor units are available for the GUF-RD series (for details, see Mitsubishi Electric's CITY MULTI catalog).

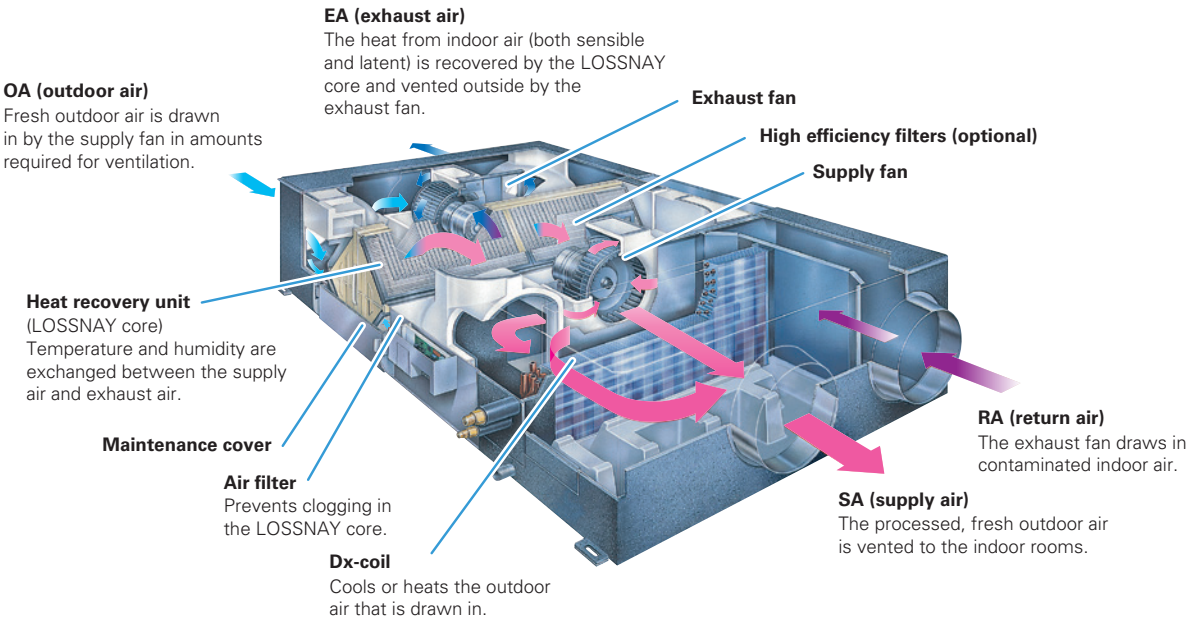
R410A Refrigerant Units

Model Size		P112	P125	P140	P200	P250	P300	P350	P400	P450	P500	P550	P600	P650	P700	P750	P800
Y Series	PUHY-P-YNW-A2				●	●	●	●	●	●	●	●	●	●	●	●	●
R2 Series	PURY-P-YNW-A2				●	●	●	●	●	●	●	●	●	●			
PUMY Series	PUMY-SP	●	●	●													
	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



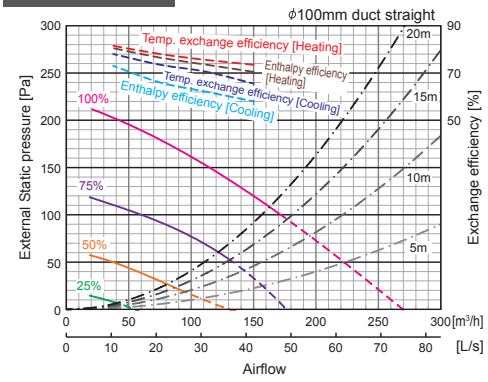
Specifications
RVX3 SERIES

Model		LGH-15RVX3-E				LGH-25RVX3-E				LGH-35RVX3-E			
Electrical power supply		220-240V/50Hz, 220V/60Hz				220-240V/50Hz, 220V/60Hz				220-240V/50Hz, 220V/60Hz			
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)*1		55	30	15	10	75	42	21	11	120	61	29	15
Airflow*1	(m^3/h)	150	113	75	38	250	188	125	63	350	263	175	88
	(L/s)	42	31	21	10	69	52	35	17	97	73	49	24
Specific fan power [W/(L/s)]*1		1.32	0.96	0.72	0.96	1.08	0.81	0.60	0.63	1.23	0.84	0.60	0.62
External static pressure (Pa)*1		120	68	30	8	120	68	30	8	160	90	40	10
Temperature exchange efficiency (%)*1	Heating	73.5	75.5	78.0	81.5	75.5	78.5	81.0	88.0	75.0	77.0	79.0	82.0
	Cooling	65.5	70.5	73.5	78.0	70.5	76.5	79.0	85.0	66.5	71.0	74.0	79.0
Enthalpy exchange efficiency (%)*1	Heating	70.5	73.5	76.5	80.5	69.0	72.0	75.5	84.0	72.0	74.5	77.5	80.0
	Cooling	58.0	62.0	66.0	73.0	59.0	63.5	68.0	75.0	60.0	64.5	68.5	74.5
Noise (dB)*2		27.0	22.0	18.0	17.0	30.5	25.0	19.5	17.0	30.5	24.5	19.0	17.0
Exhaust air transfer ratio (%)*3		5				5				5			
Weight (kg)		20				22				30			
Maximum input power (W)		74				119				196			

*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation. *1 : Measured according to ISO 16494-1: 2022
*2 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber. *3 : Measured according to EN308: 2022 / FS3

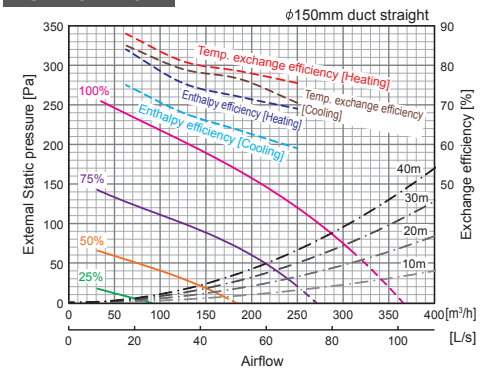
Characteristic curve

LGH-15RVX3-E



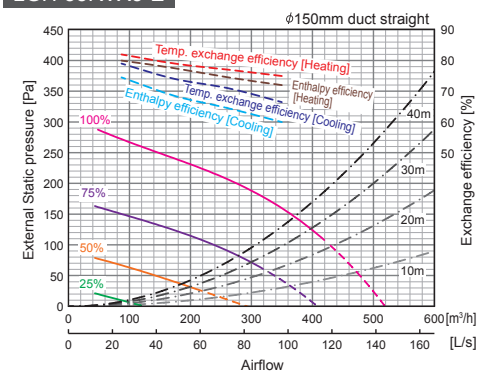
*The dotted lines of the fan curves are reference values.

LGH-25RVX3-E



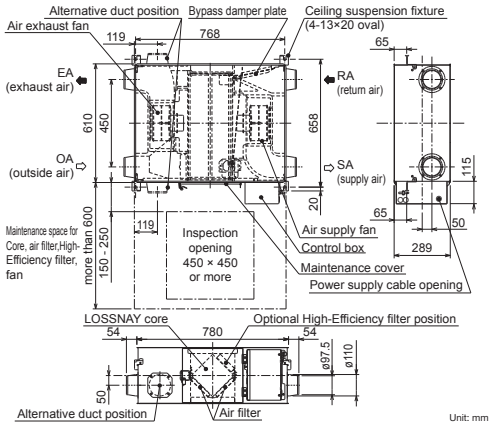
*The dotted lines of the fan curves are reference values.

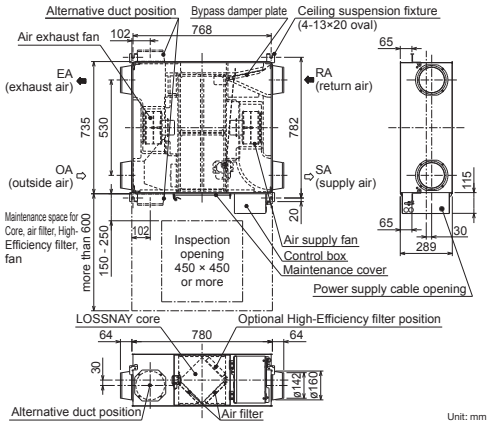
LGH-35RVX3-E

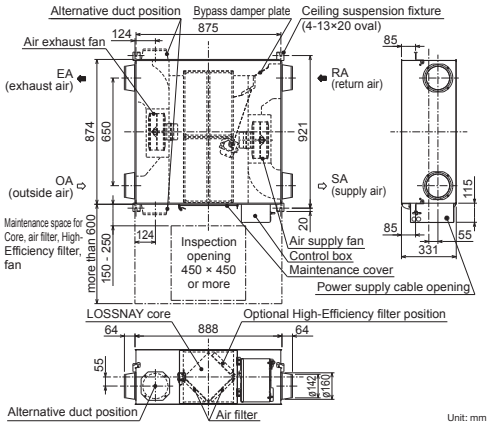


*The dotted lines of the fan curves are reference values.

Outline drawings







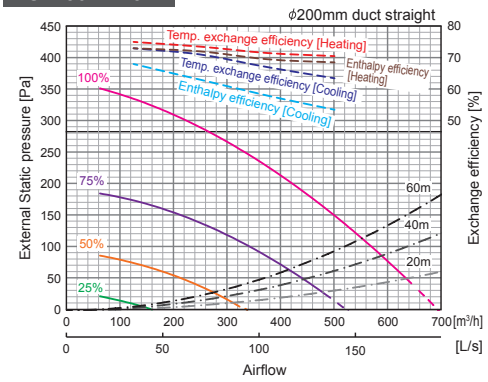
*Specifications may be subject to change without notice.

Model		LGH-50RVX3-E				LGH-65RVX3-E				LGH-80RVX3-E			
Electrical power supply		220-240V/50Hz, 220V/60Hz				220-240V/50Hz, 220V/60Hz				220-240V/50Hz, 220V/60Hz			
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)*1		185	81	34	15	245	120	51	20	343	160	64	23
Airflow*1	(m^3/h)	500	375	250	125	650	488	325	163	800	600	400	200
	(L/s)	139	104	69	35	181	135	90	45	222	167	111	56
Specific fan power [W/(L/s)]*1		1.33	0.78	0.49	0.43	1.36	0.89	0.56	0.44	1.54	0.96	0.58	0.41
External static pressure (Pa)*1		150	85	38	10	150	85	38	10	170	96	43	11
Temperature exchange efficiency (%)*2	Heating	70.5	71.5	73.5	75.0	72.5	75.0	78.5	82.0	75.0	76.5	78.0	80.0
	Cooling	63.5	67.0	71.0	73.0	65.0	70.0	74.5	80.0	65.0	70.0	75.5	78.0
Enthalpy exchange efficiency (%)*2	Heating	68.5	69.5	72.0	73.0	69.5	72.0	76.5	80.0	62.0	65.0	70.5	73.5
	Cooling	53.5	58.0	63.0	68.0	55.5	60.0	66.5	74.0	54.5	58.5	65.0	70.5
Noise (dB)*3		35.0	27.0	21.0	17.0	37.5	31.5	24.0	17.5	39.0	33.5	25.0	18.0
Exhaust air transfer ratio (%)*4		5				5				5			
Weight (kg)		33				41				47			
Maximum input power (W)		277				360				503			

*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.
*1 : Measured according to (LGH-50RVX3-E) ISO 16494-1: 2022, (LGH-65/80RVX3-E) EN13053: 2019
*2 : Measured according to (LGH-50RVX3-E) ISO 16494-1: 2022, (LGH-65/80RVX3-E) EN308: 2022
*3 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber. *4 : Measured according to EN308: 2022 / FS3

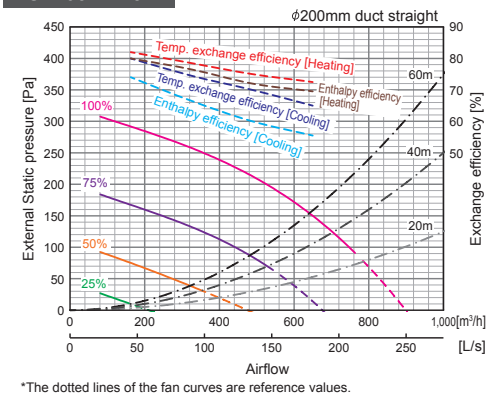
Characteristic curve

LGH-50RVX3-E



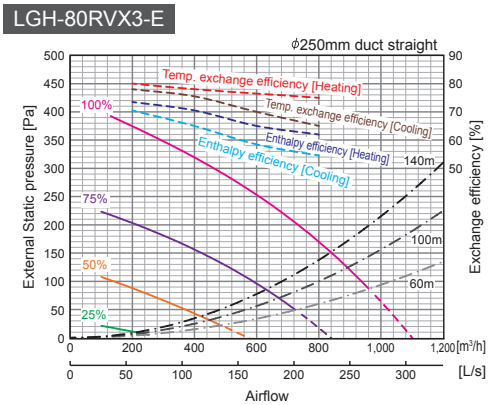
*The dotted lines of the fan curves are reference values.

LGH-65RVX3-E



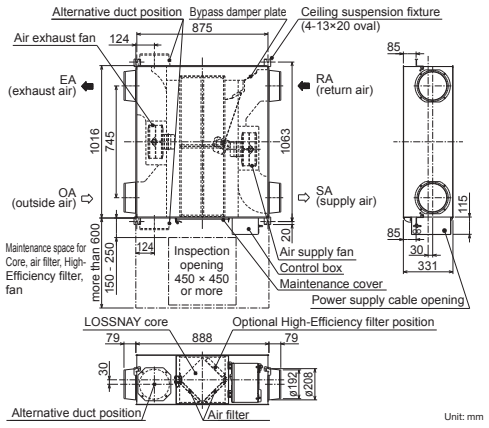
*The dotted lines of the fan curves are reference values.

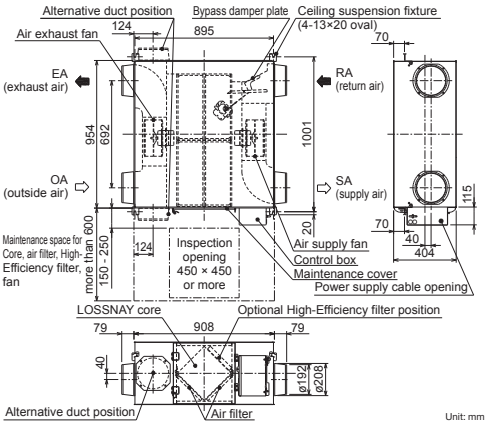
LGH-80RVX3-E

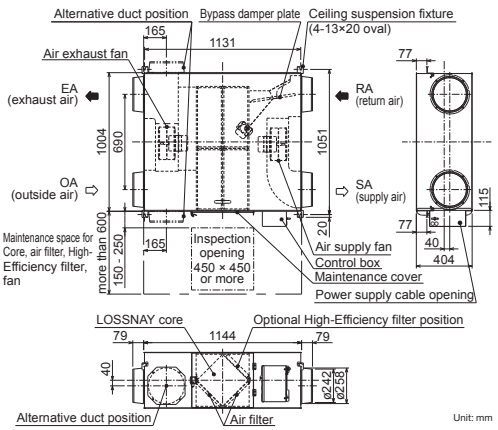


*The dotted lines of the fan curves are reference values.

Outline drawings







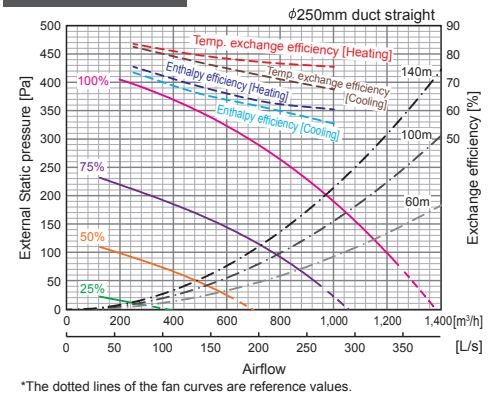
*Specifications may be subject to change without notice.

Model		LGH-100RVX3-E				LGH-160RVX3-E				LGH-200RVX3-E			
Electrical power supply		220-240V/50Hz, 220V/60Hz				220-240V/50Hz, 220V/60Hz				220-240V/50Hz, 220V/60Hz			
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default Airflow setting		100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)*1		438	210	83	27	687	324	128	45	855	416	163	57
Airflow*1	(m^3/h)	1000	750	500	250	1600	1200	800	400	2000	1500	1000	500
	(L/s)	278	208	139	69	444	333	222	111	556	417	278	139
Specific fan power [W/(L/s)]*1		1.58	1.01	0.60	0.39	1.55	0.97	0.58	0.41	1.54	1.00	0.59	0.41
External static pressure (Pa)*1		190	107	48	12	170	96	43	11	170	96	43	11
Temperature exchange efficiency (%)*2	Heating	75.5	77.0	79.5	83.5	75.0	76.5	78.0	80.0	76.5	77.5	79.5	83.5
	Cooling	67.5	72.0	77.0	82.5	65.0	70.0	75.5	78.0	66.5	71.5	76.0	82.5
Enthalpy exchange efficiency (%)*2	Heating	60.5	63.0	68.5	75.5	62.0	65.0	70.5	73.5	60.5	64.0	67.5	76.0
	Cooling	55.5	61.0	66.0	73.5	54.5	58.5	65.0	70.5	57.0	60.0	65.0	71.0
Noise (dB)*3		40.0	35.0	27.0	18.5	41.0	35.0	26.0	18.0	41.5	36.0	27.5	18.0
Exhaust air transfer ratio (%)*4		5				5				5			
Weight (kg)		53				96				108			
Maximum input power (W)		646				798				915			

*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.
*1 : Measured according to EN13053: 2019 *2 : Measured according to EN308: 2022
*3 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber. *4 : Measured according to EN308: 2022 / FS3

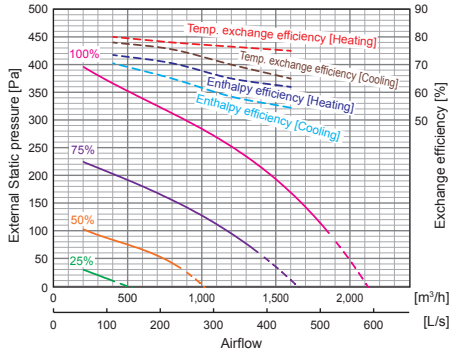
Characteristic curve

LGH-100RVX3-E



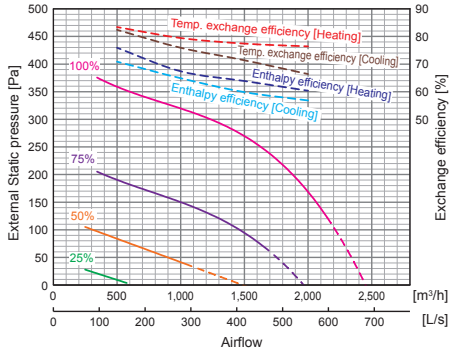
*The dotted lines of the fan curves are reference values.

LGH-160RVX3-E



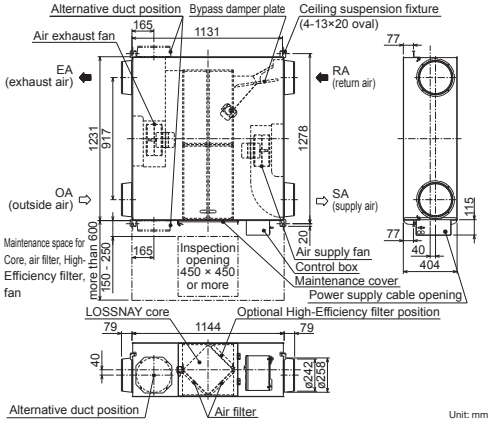
*The dotted lines of the fan curves are reference values.

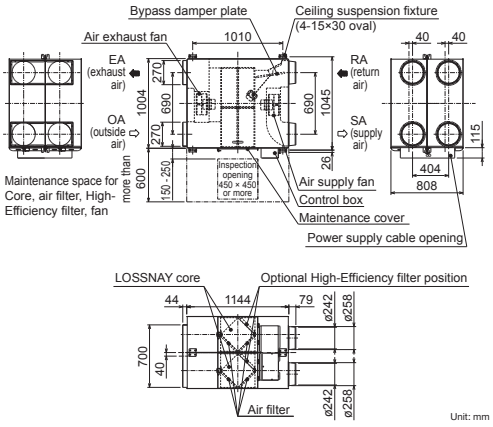
LGH-200RVX3-E

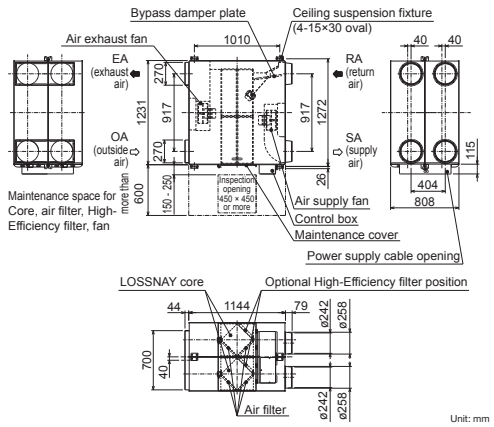


*The dotted lines of the fan curves are reference values.

Outline drawings







*Specifications may be subject to change without notice.

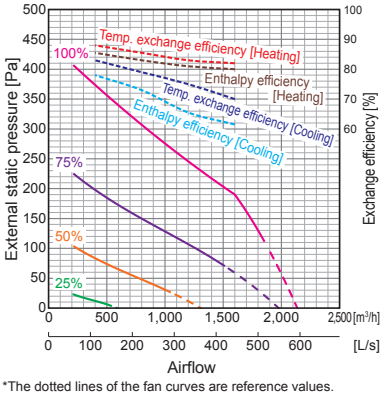
RVXT3 SERIES

Model		LGH-160RVXT3-E				LGH-200RVXT3-E				LGH-250RVXT3-E			
Electrical power supply		380-415V/3N~ 50Hz, 380V/3N~ 60Hz				380-415V/3N~ 50Hz, 380V/3N~ 60Hz				380-415V/3N~ 50Hz, 380V/3N~ 60Hz			
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default airflow setting		100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)*1	L1-N	0	0	0	0	0	0	0	0	0	0	0	0
	L2-N	354	184	72	23	522	249	96	28	724	348	142	43
	L3-N	354	184	72	23	522	249	96	28	724	348	142	43
	Total	708	368	144	46	1044	498	192	56	1448	696	284	86
Airflow*1	(m^3/h)	1600	1200	800	400	2000	1500	1000	500	2500	1875	1250	625
	(L/s)	444	333	222	111	556	417	278	139	694	521	347	174
Specific fan power (W/(L/s))*1		1.59	1.10	0.65	0.41	1.88	1.20	0.69	0.40	2.09	1.34	0.82	0.50
External static pressure (Pa)*1		190	107	48	12	190	107	48	12	190	107	48	12
Temperature exchange efficiency (%)*2	Heating	82.0	83.0	85.5	88.0	80.0	81.0	83.0	86.0	77.0	78.0	80.0	84.0
	Cooling	70.0	75.0	79.0	83.0	67.5	73.0	78.0	82.0	65.0	70.5	76.5	81.0
Enthalpy exchange efficiency (%)*2	Heating	80.0	81.0	83.0	85.5	78.5	79.5	81.5	84.5	75.0	76.0	78.0	81.5
	Cooling	61.5	65.5	73.0	78.0	56.5	61.0	67.5	75.0	54.0	59.0	66.0	73.0
Noise (dB)*3		38.0	33.0	26.0	19.5	40.0	35.0	28.0	21.0	44.0	38.0	31.5	23.0
Exhaust air transfer ratio (%)*4		5.0				5.0				5.0			
Weight (kg)		172				172				172			
Maximum input power (W) (380-415V 3N~ 50Hz/380V 3N~ 60Hz)	Total	740-720/740				1060-1040/1060				1480-1460/1500			

* Input power, efficiency, and noise are based on rated airflow, 400V/50Hz. ** In bypass mode, the maximum airflow is 70% of heat recovery mode. The same applies to the Night-purge function.
*1 : Measured according to EN13053: 2019 *2 : Measured according to EN308: 2022
*3 : A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber. *4 : Measured according to EN308: 2022 / 75% fan speed

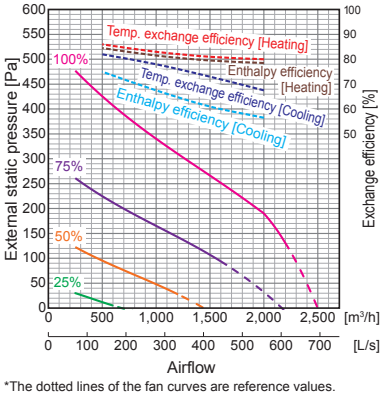
Characteristic curve

LGH-160RVXT3-E



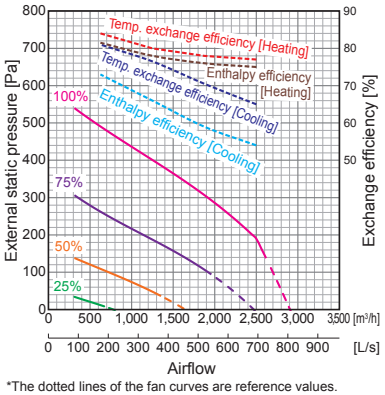
*The dotted lines of the fan curves are reference values.

LGH-200RVXT3-E



*The dotted lines of the fan curves are reference values.
*Leader-follower function is not available when external static pressure is more than 460Pa.

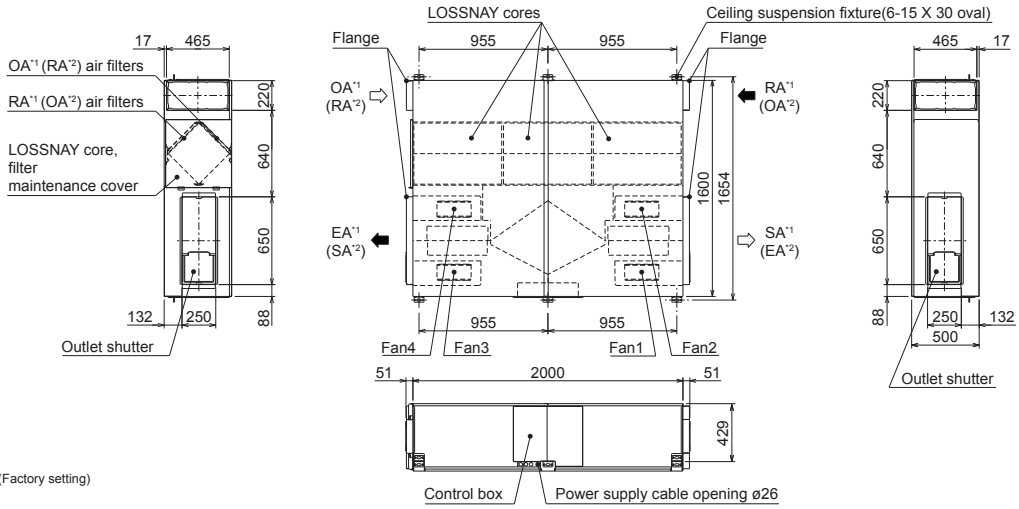
LGH-250RVXT3-E



*The dotted lines of the fan curves are reference values.
*Leader-follower function is not available when external static pressure is more than 460Pa.

Outline drawings

LGH-160RVXT3-E LGH-200RVXT3-E LGH-250RVXT3-E



SA [supply air]
EA [exhaust air outlet]
RA [return air]
OA [outside air intake]
*1 : LR switching is OFF (Factory setting)
*2 : LR switching is ON

Unit (mm)

*Specifications may be subject to change without notice.

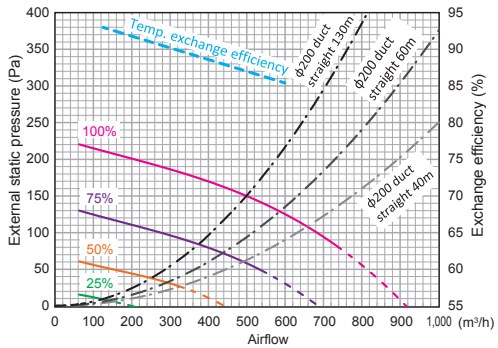
RVS SERIES

Model		LGH-50RVS-E				LGH-80RVS-E				LGH-100RVS-E			
Electrical power supply		220-240V/50Hz, 220V/60Hz				220-240V/50Hz, 220V/60Hz				220-240V/50Hz, 220V/60Hz			
Fan speed		100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)		190	110	60	25	325	175	85	32	445	225	100	35
Airflow	(m^3/h)	500	375	250	125	800	600	400	200	1000	750	500	250
	(L/s)	139	104	69	35	222	167	111	56	278	208	139	69
Specific fan power (W/(L/s))		1.37	1.06	0.86	0.72	1.46	1.05	0.77	0.58	1.60	1.08	0.72	0.50
External static pressure (Pa)		150	84	38	9	170	96	43	11	190	107	48	12
Temp. exchange efficiency (%)		87.0	89.0	91.0	93.0	82.0	84.0	86.0	90.0	82.0	84.0	86.0	90.0
Noise (dB)		33.0	27.0	22.0	18.0	36.0	30.0	25.0	18.0	37.0	32.0	24.0	18.0
Exhaust air transfer ratio (%)		5				5				5			
Weight		55kg (67kg with maximum drain water)				63kg (77kg with maximum drain water)				73kg (89kg with maximum drain water)			
Maximum input power (W) (220-240V 50Hz/220V 60Hz)	Total	361-360/359				622-621/619				691-782/679			

* The input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20ºC/ WB 15ºC and outdoor DB 5ºC/ WB 3ºC. 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 the relative humidity of RA shall be lower than 90%RH through the year.
Examples of the absolute humidity 0.0139kg/kg(DA) are 20.7ºC 90%RH, 25ºC 70%, 30ºC 50% etc.

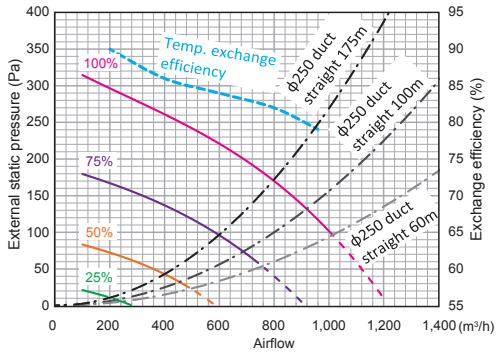
Characteristic curve

LGH-50RVS-E



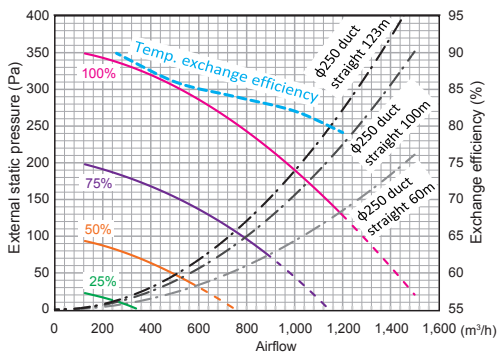
*The dotted lines of the fan curves are reference values.

LGH-80RVS-E



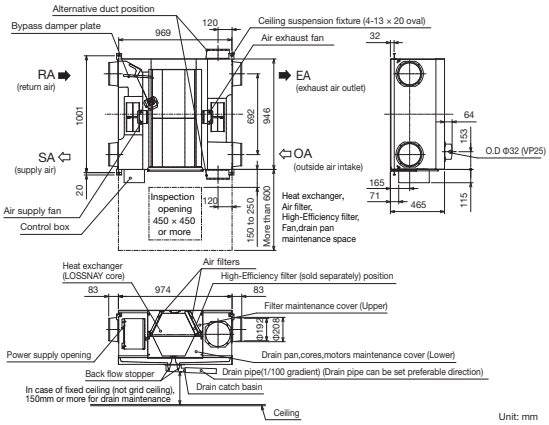
*The dotted lines of the fan curves are reference values.

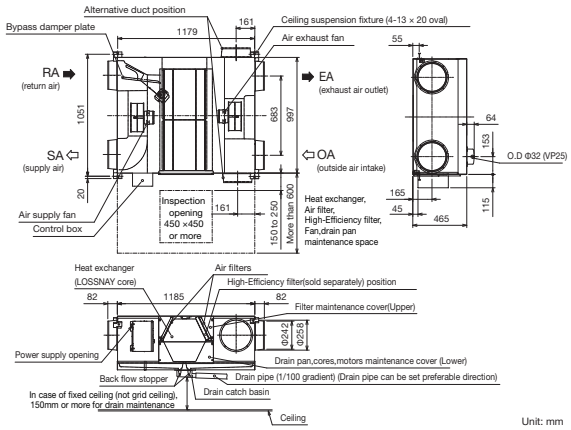
LGH-100RVS-E

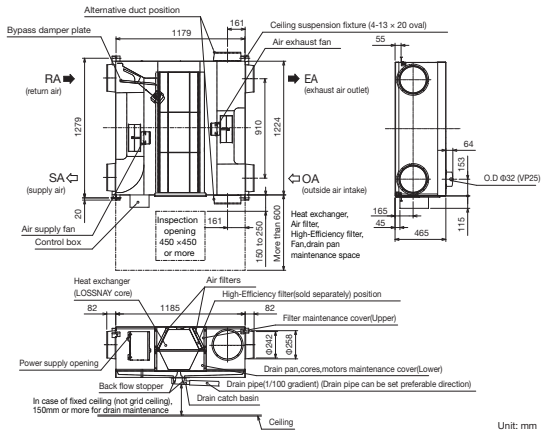


*The dotted lines of the fan curves are reference values.

Outline drawings







*Specifications may be subject to change without notice.

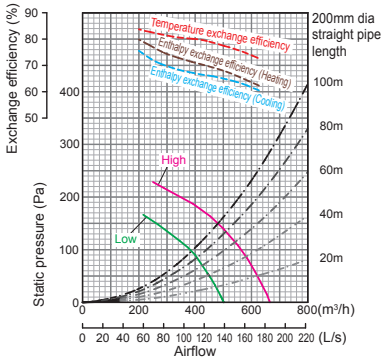
GUF SERIES

Model		GUF-50RD4				GUF-100RD4			
Electrical power supply		220-240V/50Hz				220-240V/50Hz			
Ventilation mode		Heat recovery mode		Bypass mode		Heat recovery mode		Bypass mode	
Fan speed		High	Low	High	Low	High	Low	High	Low
Running current (A)		1.15	0.70	1.15	0.70	2.20	1.73	2.25	1.77
Input power (W)		235-265	150-165	235-265	150-165	480-505	370-395	490-515	385-410
Airflow	(m^3/h)	500	400	500	400	1000	800	1000	800
	(L/s)	139	111	139	111	278	222	278	222
External static pressure (Pa)		140	90	140	90	140	90	140	90
Temperature exchange efficiency (%)		77.5	80	–	–	79.5	81.5	–	–
Enthalpy exchange efficiency (%)	Heating	68	71	–	–	71	74	–	–
	Cooling	65	67	–	–	69	71	–	–
Cooling capacity (kW)		5.57 (1.94)				11.44 (4.12)			
Heating capacity (kW)		6.21 (2.04)				12.56 (4.26)			
Capacity equivalent to the indoor unit		P32				P63			
Humidifier	Humidifying	–				–			
	Humidifying capacity (kg/h)	–				–			
	Water supply pressure	–				–			
Noise (dB) (Measured at 1.5m under the center of the unit)		33.5-34.5	29.5-30.5	35-36	29.5-30.5	38-39	34-35	38-39	35-36
Weight (kg)		48				82			

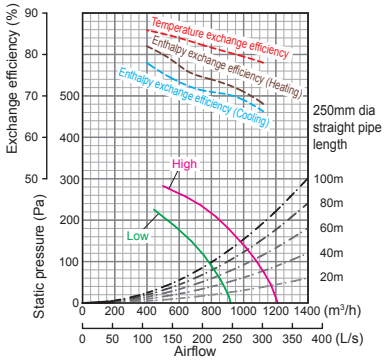
*Cooling/Heating capacity indicates the maximum value at operation under the following condition.
Cooling: Indoor: 27°C DB/19°C WB Outdoor: 35°C DB/24°C WB
Heating: Indoor: 20°C DB/13.8°C WB Outdoor: 7°C DB/6°C WB
*The figures in ( ) indicates heat recovering capacity of heat exchange core.
*Figures in the chart is 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 unit (PUHY or PURY) exceeds the capacity of the outdoor unit, the total capacity of GUF needs to be 30% and less of the connected outdoor unit capacity.

Characteristic curve

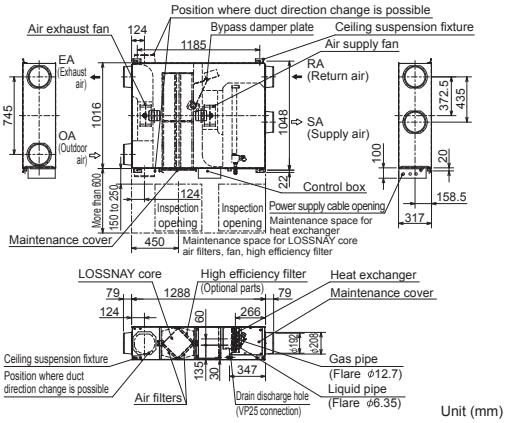
GUF-50RD4

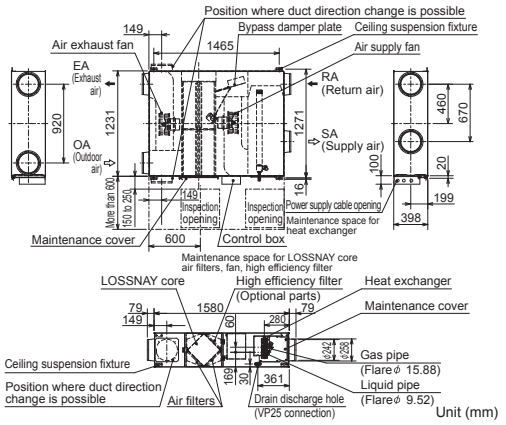


GUF-100RD4



Outline drawings

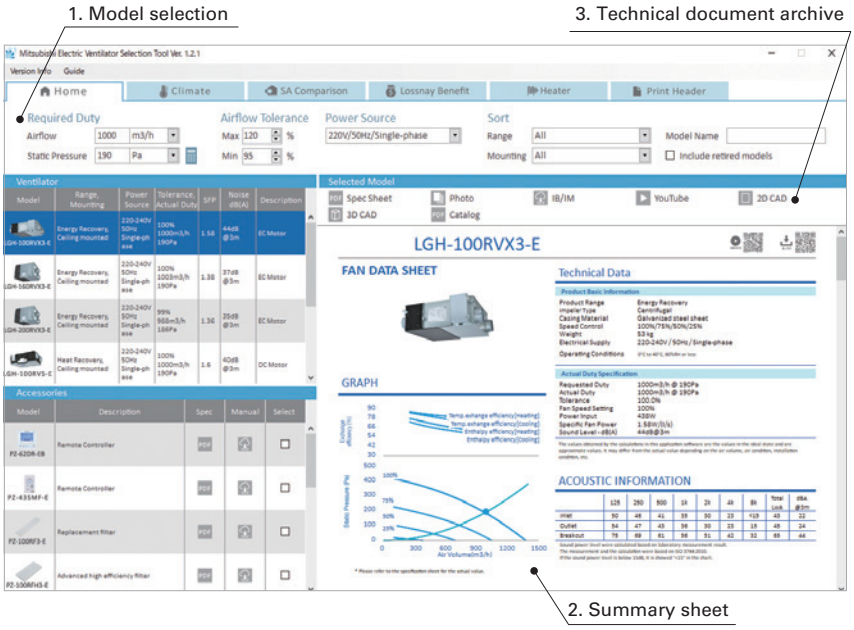




*Specifications may be subject to change without notice.

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.

Spec sheet　2D CAD　3D CAD

...and more!

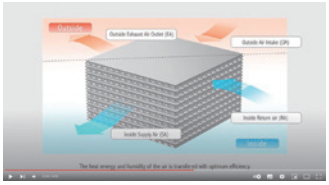
*This image is for illustration purpose and actual data may vary.
*Ratings and specifications may change due to product improvements or modifications.

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

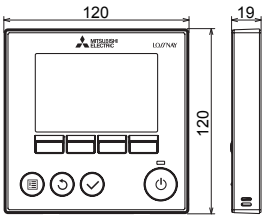
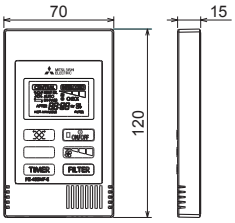


■How to select a model

Scan Me

CONTROL TECHNOLOGIES

Compatibility Table

Model	PZ-62DR-EA/EB	PZ-43SMF-E
Image		
Dimension	 Unit (mm)	 Unit (mm)
Remote Controller Compatibility Table		
Model name	PZ-62DR-EA/EB	PZ-43SMF-E
Compatible series	LGH-RVX3/RVXT3/RVS	LGH-RVX3/RVXT3/RVS
Fan speed selection	4 fan speeds and Auto (Auto is available when using a CO_2 sensor)	2 of 4 fan speeds
Control with a CO_2 sensor (Mitsubishi Electric and field supply)	Yes (Fan speed automatically changes from 25% to 100% depending on the CO_2 concentration*)	No
Ventilation mode selection	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto
Night purge	Yes	No
Function setting with remote controller	Yes	No
Bypass temp. free setting	Yes	No
Flexible airflow setting	Yes (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	No
ON/OFF timer	Yes	Yes
Auto-off timer	Yes	No
Weekly timer	Yes	No
Fan speed timer	Yes	No
Operation restrictions (ON/OFF, ventilation mode, fan speed)	Yes	No
Operation restrictions (fan speed skip setting)	Yes	No
Screen contrast adjustment	Yes	No
Language selection	Yes (17 languages)	No (English only)
CO_2 concentration indication (Mitsubishi Electric and field supply)	Yes	No
Filter cleaning sign	Yes (Maintenance interval can be changed)	Yes
LOSSNAY core cleaning sign	Yes/No (RVS Series)	No
Error indication	Yes (Displays model name, serial number, contact information)	Yes
Error history	Yes	No
OA/RA/SA temp. display	Yes	No

*When using a CO_2 sensor. Upper and lower limits may differ.

Remote Control Language Table

Language	English	German	Spanish	French	Italian	Russian	Portuguese	Swedish	Dutch	Turkish	Polish	Greek	Czech	Hungarian	Slovenian	Bulgarian	Danish
-EA	●	●	●	●		●			●	●	●		●	●		●	
-EB	●	●	●	●	●		●	●				●			●		●

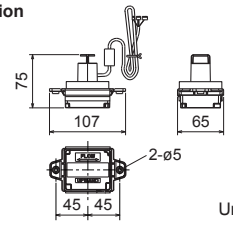
CO_2 Sensors

Connecting a CO_2 sensor directly to the LOSSNAY unit will optimize fan speed according to the level of CO_2 detected.

PZ-70CSD-E (Duct-mounted type)

Mounted in the duct with all the wiring hidden in the ceiling.

Dimension

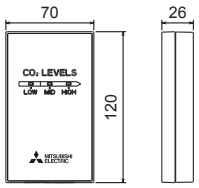


Unit (mm)

PZ-70CSW-E (Wall-mounted type)

Mounted on the wall. CO_2 is monitored in 3 levels.

Dimension



*A 10m cable is included as a connection accessory. Unit (mm)

Vertical Installation Plates

PZ-1VS-E, PZ-2VS-E

EA side plate RA side plate

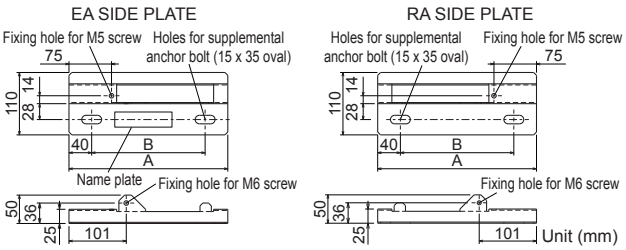
Parts used to install RVX3 vertically.

Change dimension table (Unit: mm)

Model	A	B	Weight (kg)	Applicable model
PZ-1VS-E	280	200	1.2	LGH-15 to 50RVX3-E
PZ-2VS-E	380	300	1.6	LGH-65 to 100RVX3-E

*Not applicable to LGH-160/200RVX3-E

Dimension



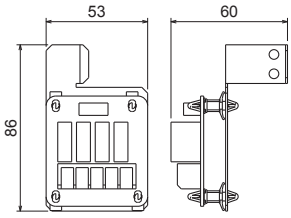
Unit (mm)

Signal Output Terminal

PZ-4GS-E

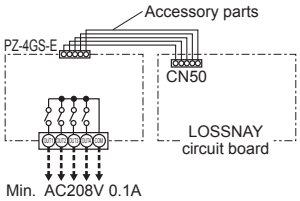
The PCBs of RVX3, RVXT3, RVS have only one output terminal. By using PZ-4GS-E, four more output terminals can be added to the units.

Dimension



Unit (mm)

Wiring diagram



Min. AC208V 0.1A
DC5V 0.1A
Max. AC240V 1A
DC24V 1A
(Up to 1.5A for common terminals)

*Wiring work must be performed by a qualified professional

Duct Silencer

The duct silencer connects to the LOSSNAY unit to reduce airflow noise.

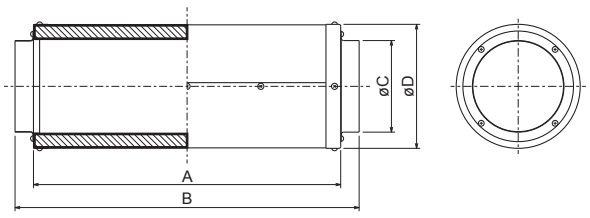
Specifications

Model	Airflow (m^3/h)	Attenuation of sound power level [dB] at center frequency (discharge)							
		62.5Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
PZ-100SS-E	50	0	3	5	7	6	6	6	8
	150	0	3	6	7	7	7	7	9
PZ-150SS-E	250	0	1	5	8	15	21	20	14
	350	0	1	4	8	14	21	21	16
PZ-200SS-E	500	0	1	4	7	13	18	16	9
	650	0	1	3	8	12	17	14	6
PZ-250SS-E	800	0	2	4	12	22	21	14	13
	1000	0	1	4	12	22	20	14	13

1. Figures in the chart above are based on a comparison with a general steel duct of the same length.
2. The silencer is placed just before the outlet during the measurement.
3. When the airflow rate differs, attenuation will also differ from the chart above.
4. Figures in the chart above are flat (not-weighted) values.

● Some ratings and specifications may change due to product improvements or modifications.

Dimension



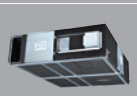
Unit (mm)

Change dimension table (Unit: mm)

Model	A	B	C	D	Connectable Duct	Weight (kg)
PZ-100SS-E	400	450	99	152	ø100	1.9
PZ-150SS-E	500	560	149	202	ø150	3.5
PZ-200SS-E	600	660	199	252	ø200	5.3
PZ-250SS-E	600	660	249	332	ø250	8.9

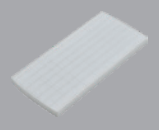
Filters

Lineup and Classification

LOSSNAY			Filter				
Model	Filter		Name	Model	Material	Classification	
	Standard Setting	Optional Setting				ISO 16890: 2016	EN779: 2012
 LGH-RVX3 Series	●		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%	–
		●*1	High-efficiency filter (M6 filter)	PZ-**RFM3-E	Synthetic fiber	–	M6
		●*1	Advanced high-efficiency filter (F8 filter)	PZ-**RFH3-E	Synthetic fiber	–	F8
 LGH-RVXT3 Series	●		Replacement filter (Coarse 60% filter)	PZ-250TRF-E	Non-woven fabric	Coarse 60%	–
		●	Advanced high-efficiency filter (ePM1 75%)	PZ-250TPF-E	Synthetic fiber	ePM1 75%, ePM2.5 80%, ePM10 95%	–
		●*1	High-efficiency filter (M6 filter)	PZ-250TMFR-E	Synthetic fiber	-	M6
		●*1	Advanced high-efficiency filter (F8 filter)	PZ-250THFR-E	Synthetic fiber	-	F8
 LGH-RVS Series	●		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
		●	Advanced high-efficiency filter (ePM1 65% filter)	PZ-S**RFH-E	Synthetic fiber	ePM1 65%, ePM2.5 75%, ePM10 90%	F8
 GUF Series	●		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%	–
		●	Advanced high-efficiency filter (ePM1 75%)	PZ-**RFP2-E	Synthetic fiber	ePM1 75%, ePM2.5 80%, ePM10 95%	–

*1: Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVX3 SERIES

Filter							Package number for replacement	Installation location			
Image	Model		Dimension (mm)			Pieces per package		Numbers of filters			
		Applicable model	L	W	H				OA	RA	SA
Replacement filter (Coarse 60% filter) 	PZ-15RF3-E	LGH-15RVX3-E	549	125	20	2	1	2	1	1	–
	PZ-25RF3-E	LGH-25RVX3-E	654	151	15	2	1	2	1	1	–
	PZ-35RF3-E	LGH-35RVX3-E	784	178	15	2	1	2	1	1	–
	PZ-50RF3-E	LGH-50RVX3-E	926	178	15	2	1	2	1	1	–
	PZ-65RF3-E	LGH-65RVX3-E	852	213	15	2	1	2	1	1	–
	PZ-80RF3-E	LGH-80RVX3-E	890	238	15	2	1	2	1	1	–
		LGH-160RVX3-E					2	4	2	2	–
	PZ-100RF3-E	LGH-100RVX3-E	1117	238	15	2	1	2	1	1	–
		LGH-200RVX3-E					2	4	2	2	–
Advanced high-efficiency filter (ePM1 75% filter) 	PZ-15RFP3-E	LGH-15RVX3-E	542	104.5	25	1	1	1	–	–	1
	PZ-25RFP3-E	LGH-25RVX3-E	322	128.5	25	2	1	2	–	–	2
	PZ-35RFP3-E	LGH-35RVX3-E	390	158.5	25	2	1	2	–	–	2
	PZ-50RFP3-E	LGH-50RVX3-E	461	158.5	25	2	1	2	–	–	2
	PZ-65RFP3-E	LGH-65RVX3-E	423	197.5	25	2	1	2	–	–	2
	PZ-80RFP3-E	LGH-80RVX3-E	442	215.5	25	2	1	2	–	–	2
		LGH-160RVX3-E					2	4	–	–	4
	PZ-100RFP3-E	LGH-100RVX3-E	554	215.5	25	2	1	2	–	–	2
		LGH-200RVX3-E					2	4	–	–	4
High-efficiency filter*2 (M6 filter) 	PZ-15RFM3-E	LGH-15RVX3-E	542	125	13	1	1	1	1	–	–
	PZ-25RFM3-E	LGH-25RVX3-E	322	151	13	2	1	2	2	–	–
	PZ-35RFM3-E	LGH-35RVX3-E	390	178	13	2	1	2	2	–	–
	PZ-50RFM3-E	LGH-50RVX3-E	461	178	13	2	1	2	2	–	–
	PZ-65RFM3-E	LGH-65RVX3-E	423	213	13	2	1	2	2	–	–
	PZ-80RFM3-E	LGH-80RVX3-E	442	238	13	2	1	2	2	–	–
		LGH-160RVX3-E					2	4	4	–	–
	PZ-100RFM3-E	LGH-100RVX3-E	554	238	13	2	1	2	2	–	–
		LGH-200RVX3-E					2	4	4	–	–
Advanced high-efficiency filter*2 (F8 filter) 	PZ-15RFH3-E	LGH-15RVX3-E	542	104.5	25	1	1	1	–	–	1
	PZ-25RFH3-E	LGH-25RVX3-E	322	128.5	25	2	1	2	–	–	2
	PZ-35RFH3-E	LGH-35RVX3-E	390	158.5	25	2	1	2	–	–	2
	PZ-50RFH3-E	LGH-50RVX3-E	461	158.5	25	2	1	2	–	–	2
	PZ-65RFH3-E	LGH-65RVX3-E	423	197.5	25	2	1	2	–	–	2
	PZ-80RFH3-E	LGH-80RVX3-E	442	215.5	25	2	1	2	–	–	2
		LGH-160RVX3-E					2	4	–	–	4
	PZ-100RFH3-E	LGH-100RVX3-E	554	215.5	25	2	1	2	–	–	2
		LGH-200RVX3-E					2	4	–	–	4

*2: Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVXT3 SERIES

Filter										Package number for replacement	Installation location				
Image	Model	Applicable model	Dimension (mm)						Pieces per package		Numbers of filters				
			Short			Long						OA	RA	SA	
			L	W	H	L	W	H				Long	Long	Short	Long
Replacement filter (Coarse 60% filter) 	PZ-250TRF-E	LGH-160RVXT3-E LGH-200RVXT3-E LGH-250RVXT3-E	-	-	-	995	285	15	Long : 4	1	4	2	2	-	-
Advanced high-efficiency filter (ePM1 75% filter) 	PZ-250TPF-E		663	286	25	1327	286	25	Short : 1 Long : 1	1	2	-	-	1	1
High-efficiency filter (M6 filter)*3 	PZ-250TMFR-E		-	-	-	1003	283	13	Long : 2	1	2	2	-	-	-
Advanced high-efficiency filter (F8 filter)*3 	PZ-250THFR-E		663	286	25	1327	286	25	Short : 1 Long : 1	1	2	-	-	1	1

*3: Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings)

For LGH-RVS SERIES

Filter							Package number for replacement	Installation location			
Image	Model	Applicable model	Dimension (mm)			Pieces per package		Numbers of filters			
			L	W	H				OA	RA	SA
Replacement filter (Coarse 50% filter) 	PZ-S50RF-E	LGH-50RVS-E	845	195	15	2	1	2	1	1	–
	PZ-S80RF-E	LGH-80RVS-E	885	195	15	2	1	2	1	1	–
	PZ-S100RF-E	LGH-100RVS-E	1112	195	15	2	1	2	1	1	–
High-efficiency filter (ePM10 80% filter) 	PZ-S50RFM-E	LGH-50RVS-E	422	195	15	2	1	2	2	–	–
	PZ-S80RFM-E	LGH-80RVS-E	442	195	15	2	1	2	2	–	–
	PZ-S100RFM-E	LGH-100RVS-E	556	195	15	2	1	2	2	–	–
Advanced high-efficiency filter (ePM1 65% filter) 	PZ-S50RFH-E	LGH-50RVS-E	412	203	25	2	1	2	2	–	–
	PZ-S80RFH-E	LGH-80RVS-E	432	203	25	2	1	2	2	–	–
	PZ-S100RFH-E	LGH-100RVS-E	546	203	25	2	1	2	2	–	–

For GUF SERIES

Filter							Package number for replacement	Installation location			
Image	Model	Applicable model	Dimension (mm)			Pieces per package		Numbers of filters			
			L	W	H				OA	RA	SA
Replacement filter (Coarse 35% filter) 	PZ-50RF8-E	GUF-50RD4	470	183	15	4	1	4	2	2	-
	PZ-100RF8-E	GUF-100RD4	565	243	15	4	1	4	2	2	-
High-efficiency filter (ePM10 75% filter) 	PZ-50RFM-E	GUF-50RD4	464	175	25	2	1	2	-	-	2
	PZ-100RFM-E	GUF-100RD4	559	236	25	2	1	2	-	-	2
Advanced high-efficiency filter (ePM1 75% filter) 	PZ-50RFP2-E	GUF-50RD4	464	175	25	2	1	2	-	-	2
	PZ-100RFP2-E	GUF-100RD4	559	236	25	2	1	2	-	-	2

*Specifications may be subject to change without notice.

Residential Use LOSSNAY

VL-CZPVU SERIES

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

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 (NO_2).
*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.

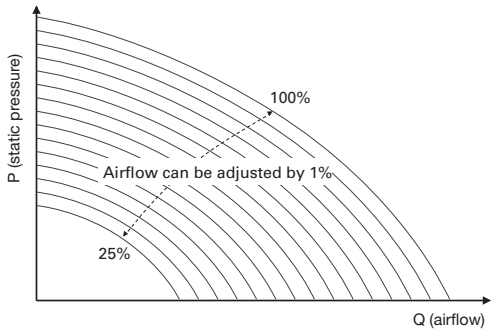
Energy Saving

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^+

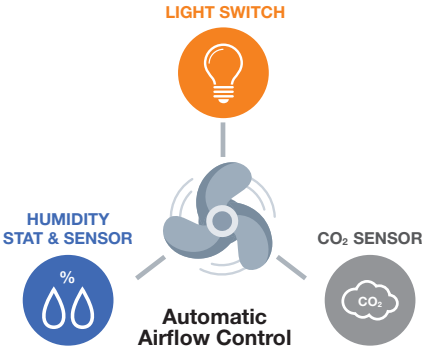
Variable Airflow Control

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.



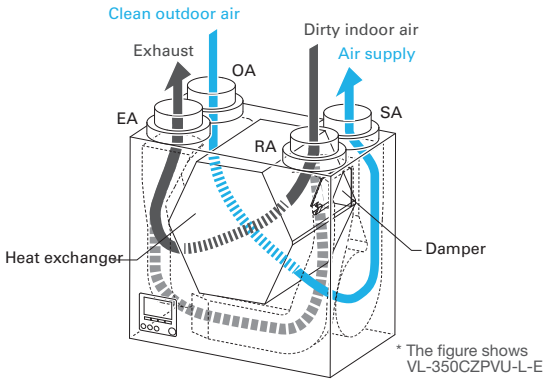
External Airflow Control

The airflow from the LOSSNAY unit can be altered using 0-10V signals from the controllers, such as the humidity stat and CO_2 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, CO_2 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.



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)

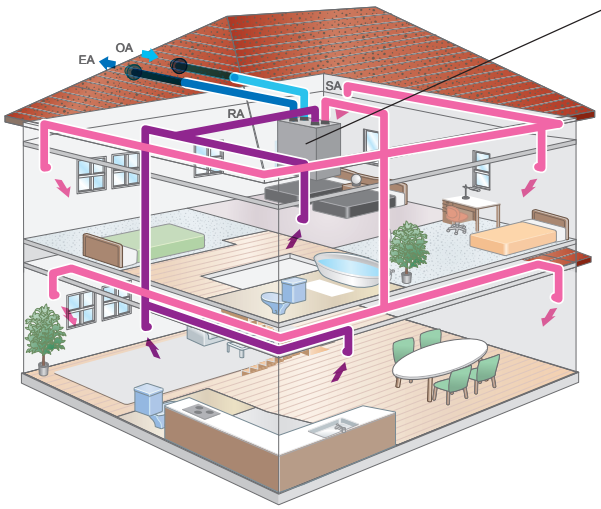
Isntallation Image

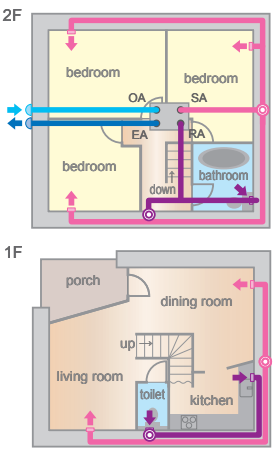
Centralized Ventilation

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

- ✓ Heat Exchanger
- ✓ Whole-house Solution
- ✓ Air Purification
- ✓ Quiet Operation
- ✓ MELCloud Control





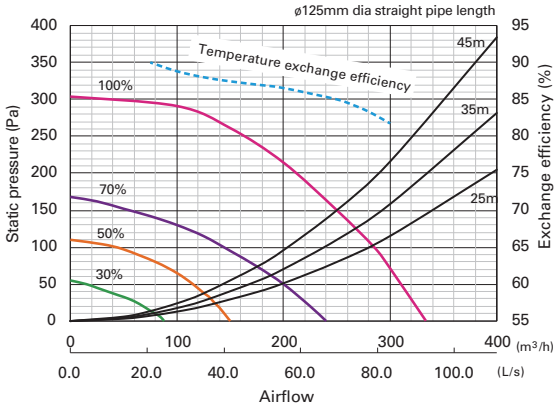
Specifications
VL-CZPVU SERIES

Model		VL-250CZPVU-R/L-E			
Electrical power supply		220-240V/50Hz, 220V-/60Hz			
Ventilation mode		Heat recovery mode			
Fan speed		FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)
Running current (A)		0.76	0.35	0.20	0.12
Input power (W)		106	44	23	11
Airflow	(m^3/h)	250	175	125	75
	(L/s)	69	49	35	21
External static pressure (Pa)		150	74	38	14
Temperature exchange efficiency (%)		85	87	88	90
Noise level (dB)		31	22	16	15>
Energy efficiency class		A+			
Weight (kg)		26			
Dimensions (mm)		(H) 565 x (W) 595 x (D) 356			

■ Attention

1. Above values are at factory default.
2. Running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
3. Sound pressure level at 3m is spherical.
4. Temperature exchange efficiency (%) is based on winter condition.
5. Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.
6. Specifications may be subject to change without notice.

Characteristic Curves

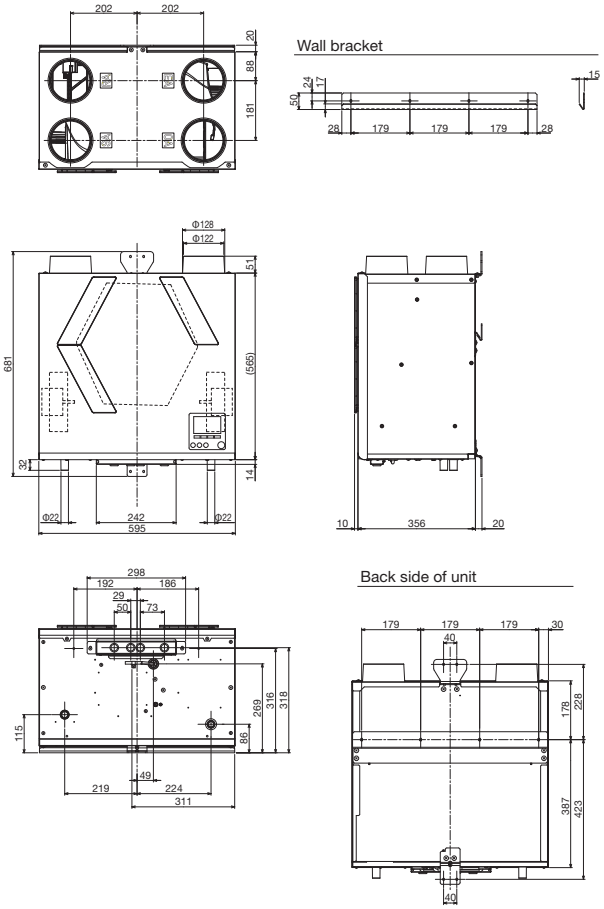


■ Attention

Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

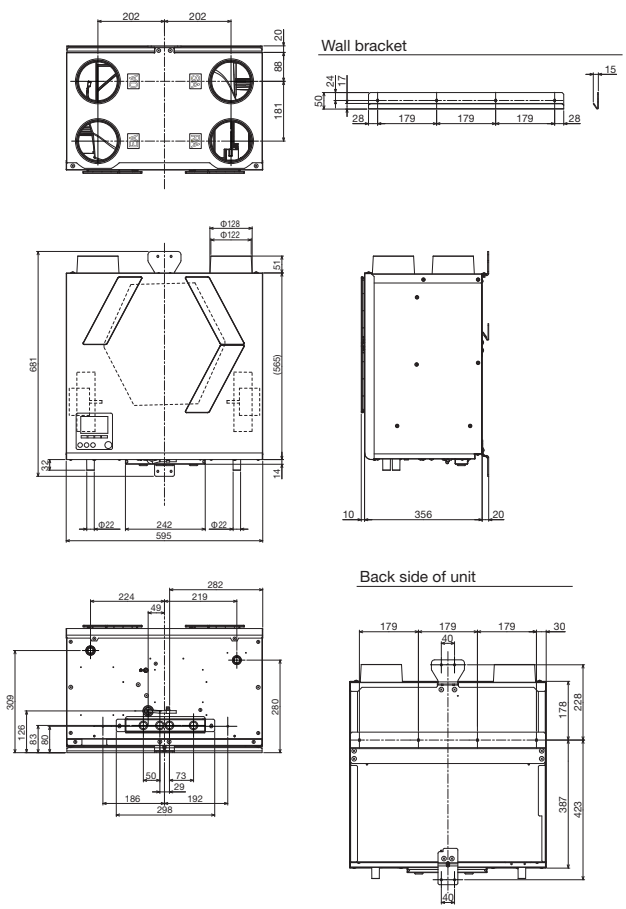
Dimensions

VL-250CZPVU-R-E



Unit: mm

VL-250CZPVU-L-E



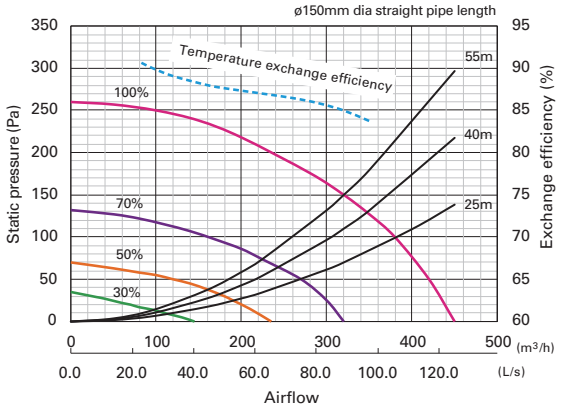
Unit: mm

Model		VL-350CZPVU-R/L-E			
Electrical power supply		220-240V/50Hz, 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	(m^3/h)	320	224	160	96
	(L/s)	89	62	44	27
External static pressure (Pa)		150	74	38	14
Temperature exchange efficiency (%)		85	87	88	90
Noise level (dB)		35	26	19	15>
Energy efficiency class		A+			
Weight (kg)		32			
Dimensions (mm)		(H) 623 x (W) 658 x (D) 432			

■ Attention

1. Above values are at factory default.
2. Running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
3. Sound pressure level at 3m is spherical.
4. Temperature exchange efficiency (%) is based on winter condition.
5. Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.
6. Specifications may be subject to change without notice.

Characteristic Curves

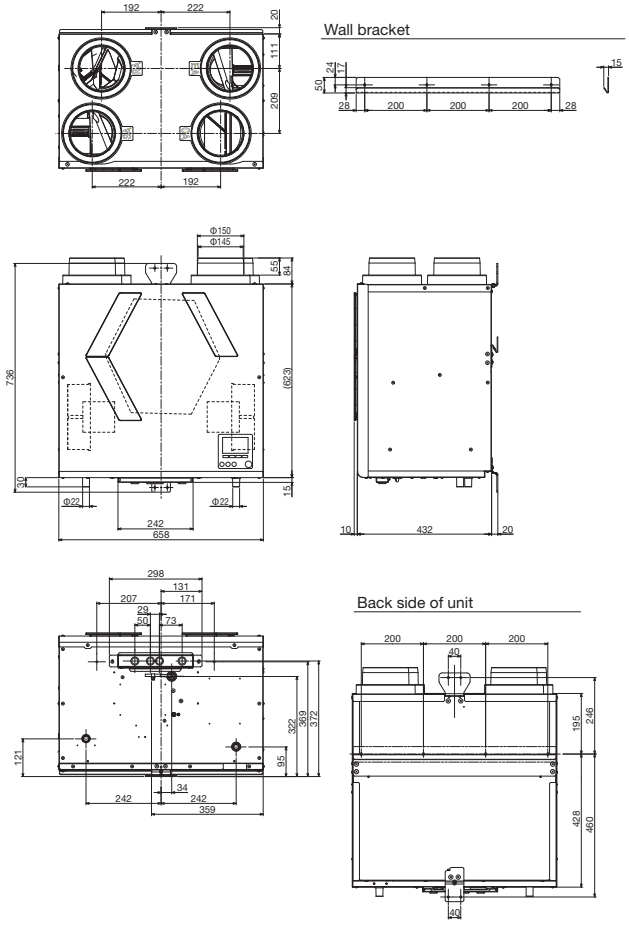


■ Attention

Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

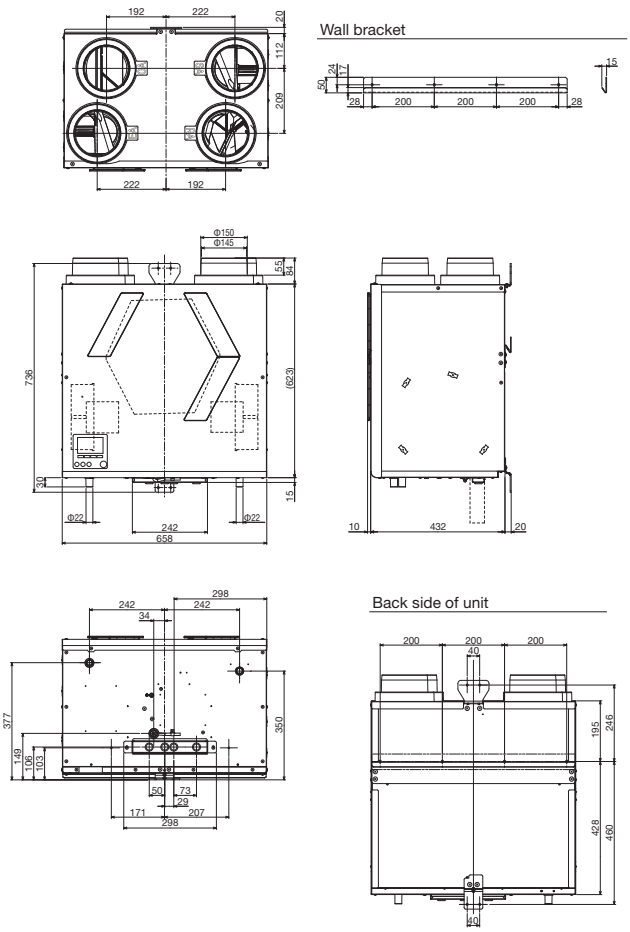
Dimensions

VL-350CZPVU-R-E



Unit: mm

VL-350CZPVU-L-E



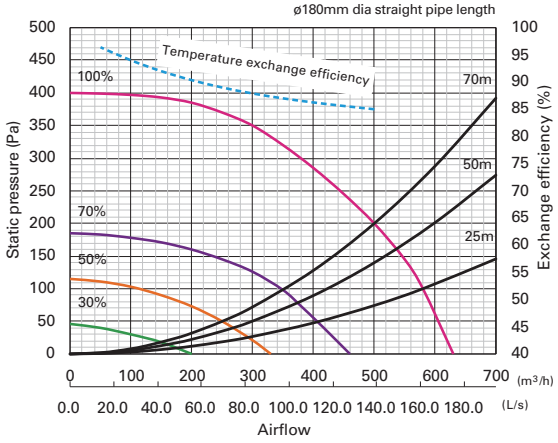
Unit: mm

Model		VL-500CZPVU-R/L-E			
Electrical power supply		220-240V/50Hz, 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
Airflow	(m^3/h)	500	350	250	150
	(L/s)	139	97	69	42
External static pressure (Pa)		200	98	50	18
Temperature exchange efficiency (%)		85	87	89	92
Noise level (dB)		37	29	22	15>
Energy efficiency class		A+			
Weight (kg)		39			
Dimensions (mm)		(H) 632 x (W) 725 x (D) 556			

■ Attention

1. Above values are at factory default.
2. Running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
3. Sound pressure level at 3m is spherical.
4. Temperature exchange efficiency (%) is based on winter condition.
5. Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.
6. Specifications may be subject to change without notice.

Characteristic Curves

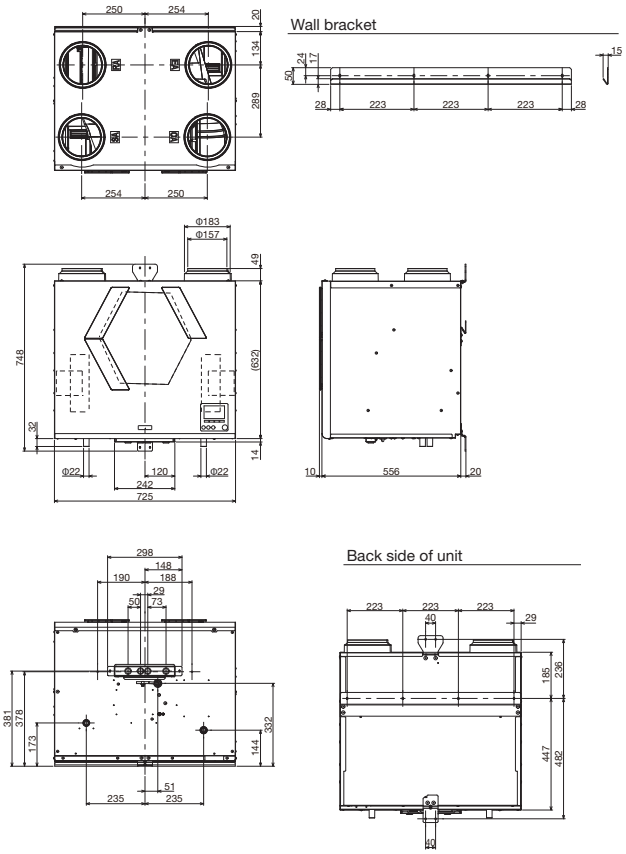


■ Attention

Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

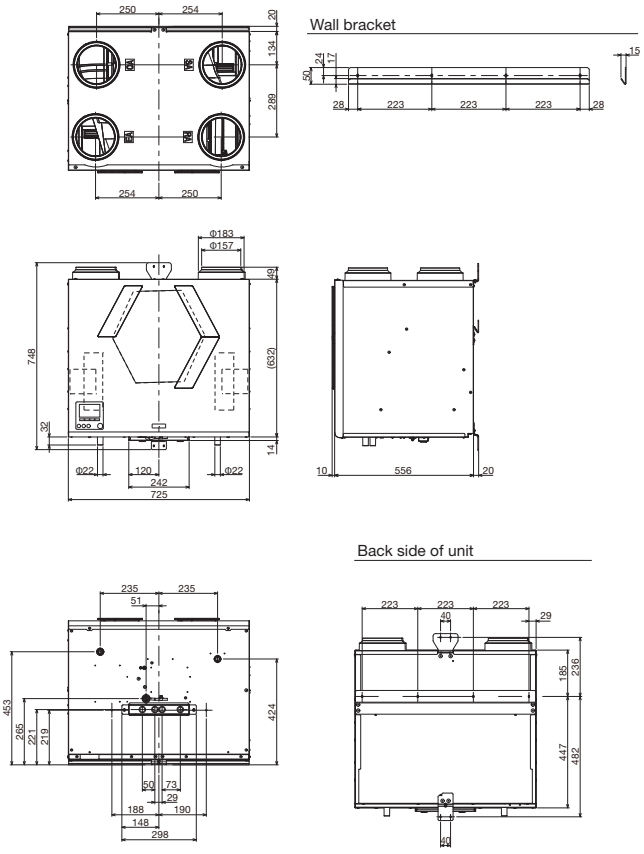
Dimensions

VL-500CZPVU-R-E



Unit: mm

VL-500CZPVU-L-E



Unit: mm

Silencer Box

Noise level can be further decreased by using a silencer box.

Installation Image

P-250SB-E

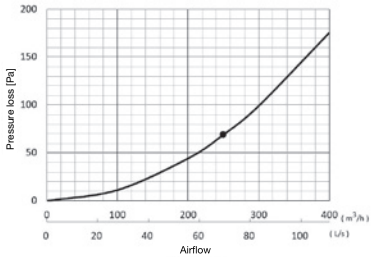
Attenuation of sound power level for center frequency

Airflow (m^3/h)	Static pressure (Pa)	Point	Attenuation of sound power level for center frequency Hz (dB)							
			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.

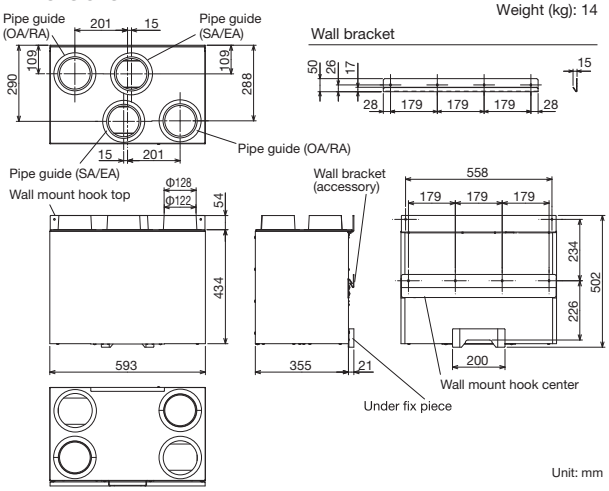
Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.



Dimensions

Weight (kg): 14



Unit: mm

P-350SB-E

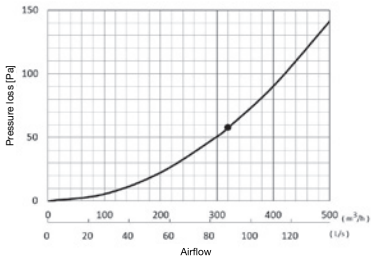
Attenuation of sound power level for center frequency

Airflow (m^3/h)	Static pressure (Pa)	Point	Attenuation of sound power level for center frequency Hz (dB)							
			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.

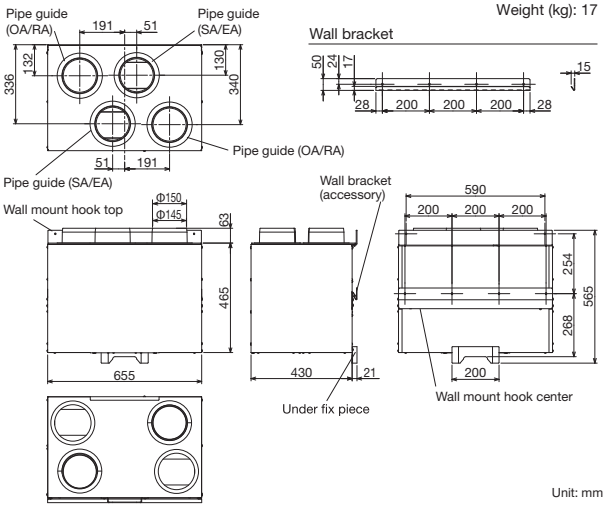
Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.



Dimensions

Weight (kg): 17



Unit: mm

P-500SB-E

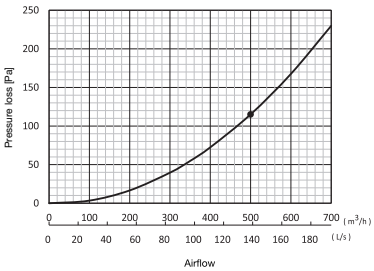
Attenuation of sound power level for center frequency

Airflow (m^3/h)	Static pressure (Pa)	Point	Attenuation of sound power level for center frequency Hz (dB)							
			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.
2. 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.

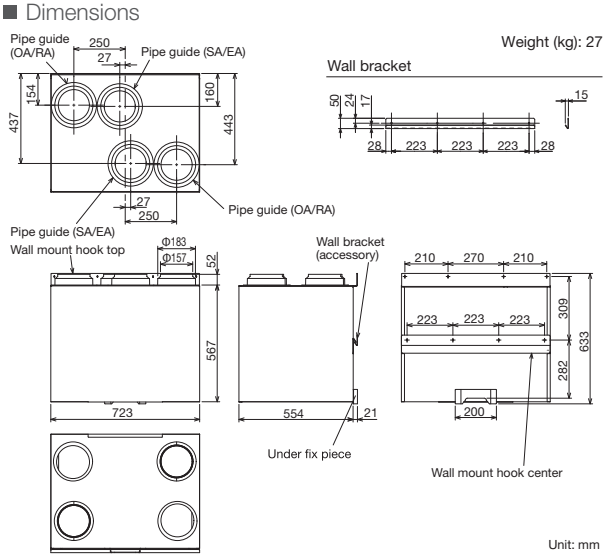
Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.



Dimensions

Weight (kg): 27

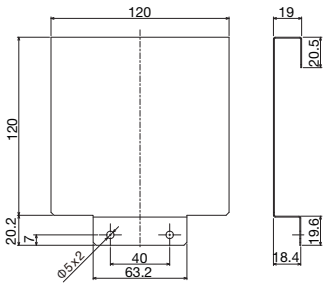


Unit: mm

Remote Controller Cover

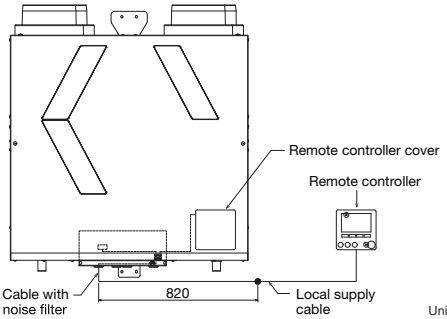
By attaching a Remote Controller Cover, the remote controller can be installed at a distance from the unit.

■ Dimensions



Unit: mm

■ Configuration



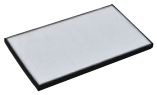
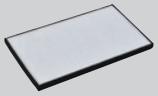
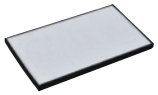
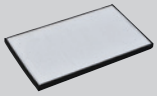
Unit: mm

Remote controller cover

Cable with noise filter

(Cable length outside the product: Approximately 820 mm)

Filters

Type		Replacement filter	Standard filter	Medium efficiency filter	Advanced efficiency filter	Advanced high efficiency filter	NOx Filter
							
Model		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)	G3	G4	M6	M6	ePM1 55%	NO_2 90%
	ISO 16890 (2016)	Coarse 55%	Coarse 90%	ePM10 80%	ePM2.5 50%		

VL-50

Wall-mounted models particularly suited for houses and small offices.

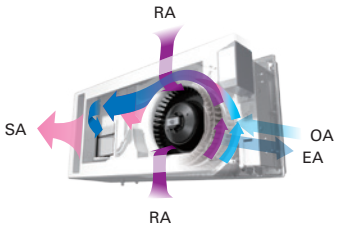
VL-50(E)S2-E
VL-50SR2-E

Decentralized Ventilation: VL-50(E)S2-E and VL-50SR2-E

Product advantages

Air is supplied and exhausted simultaneously

Air is supplied and exhausted simultaneously while transferring the heat.

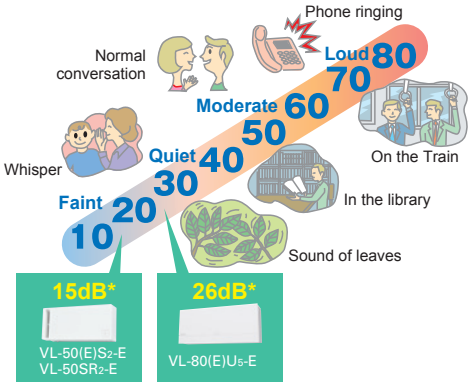


Energy efficient

- Total heat exchange minimizes heat loss.
- Achieve over 80%* temperature efficiency.

*VL-50(E)S2-E at low fan speed at 230V 50Hz

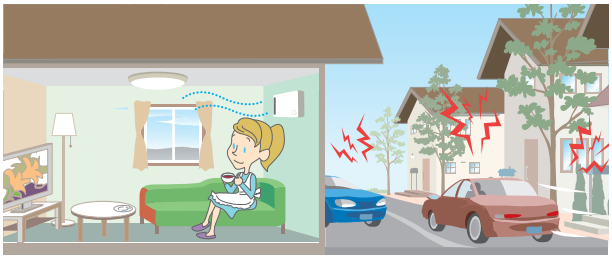
Low noise levels are ideal for bedrooms and children's rooms.



*Condition: 230V, 50Hz, low fan speed

Sound insulation

A sound insulation effect reduces the level of noise generated outside.

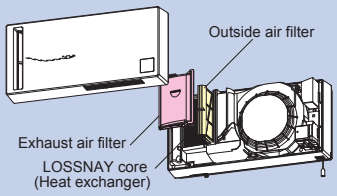


Sound insulation effect	Sound Source Side Average sound pressure dB	Sound Receiving Side Average sound pressure dB	Difference
	103.4	63.2	40.2

*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

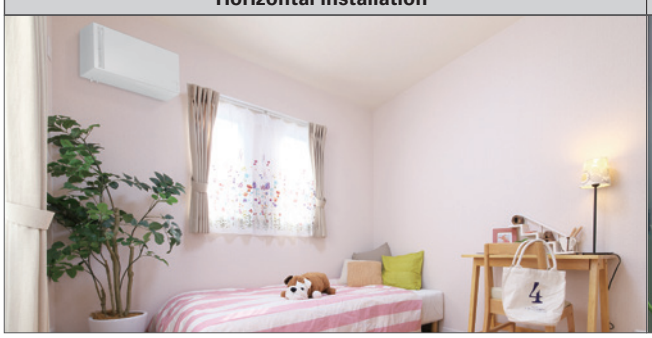
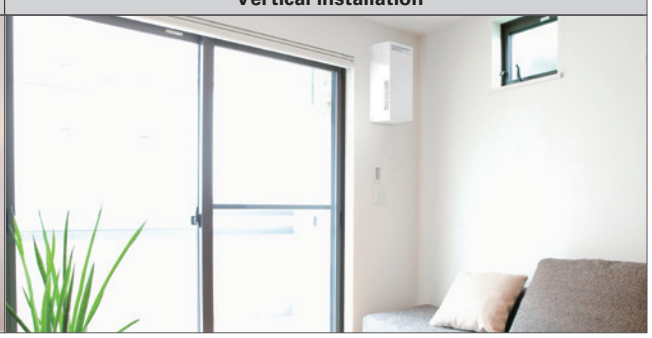
The only maintenance required is cleaning the outside air filter and exhaust air. Filters are easily accessible, making quick and thorough cleaning possible.



VL-50(E)S2-E
VL-50SR2-E

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.

Horizontal installation	Vertical installation
	

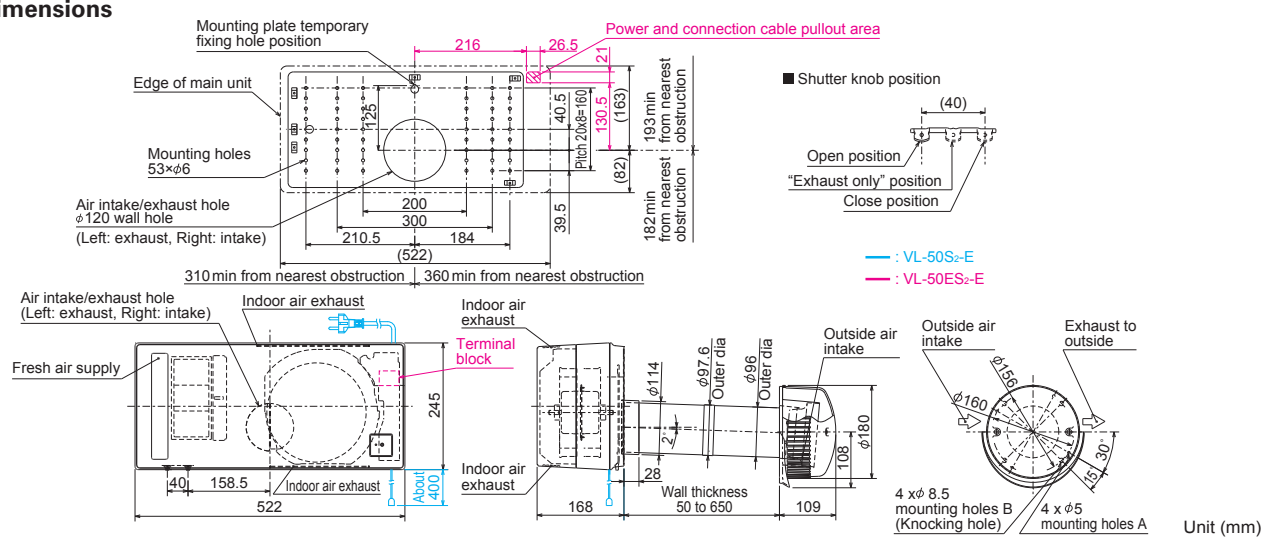
Specifications

VL-50(E)S$_2$-E (VL-50S$_2$-E/Pull-Switch Model, VL-50ES$_2$-E/Wall-Switch Model)

Model	VL-50(E)S$_2$-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)	51	15	52.5	16	54	17	54	17
Power consumption (W)	19	4	20	4.5	21	5	21	5.5
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5
Weight (kg)	6.2							
Specific energy consumption class	C							

*Figures in the chart 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



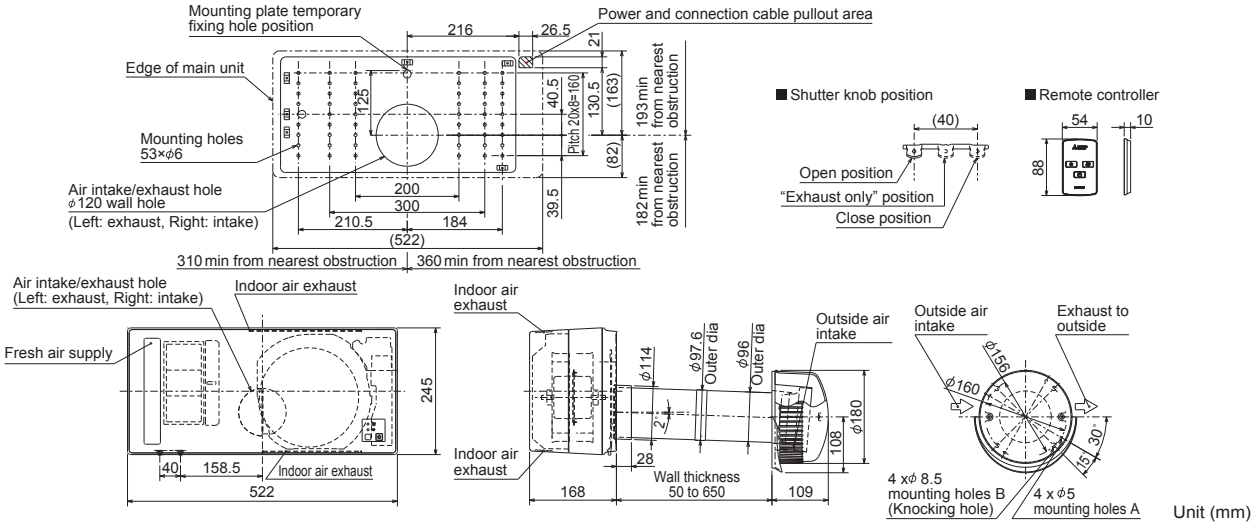
Unit (mm)

VL-50SR$_2$-E (Remote Controller Model)

Model	VL-50SR$_2$-E							
Electrical power supply	220V/50Hz		230V/50Hz		240V/50Hz		220V/60Hz	
Fan speed	High	Low	High	Low	High	Low	High	Low
Airflow (m^3/h)	51	15	52.5	16	54	17	54	17
Power consumption (W)	19	4.5	20	5	21	5.5	21	6
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5
Weight (kg)	6.2							
Specific energy consumption class	C							

*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)

Optional Parts

Optional Parts for VL-50(E)S$_2$-E and VL-50SR$_2$-E

Filter, Extension Pipe and Stainless Hood

Type	Replacement Filter	High Efficiency Filter	Extension Pipe	Joint	Stainless Hood
Design					
Model	**P-50F$_2$-E**	**P-50HF$_2$-E**	**P-50P-E**	**P-50PJ-E**	**P-50VSQ$_5$-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%	–	–	–

Compatible table

Commercial

Optional Parts List

Optional parts		Model		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-160RVXT3-E	LGH-200RVXT3-E	LGH-250RVXT3-E	LGH-50RVS-E	LGH-80RVS-E	LGH-100RVS-E	GUF-50RD4	GUF-100RD4
LOSSNAY remote controller		PZ-62DR-EA/EB		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		PZ-43SMF-E		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Filter	Replacement filter	PZ-**RF3-E (Coarse 60% filter)	PZ-15RF3-E	●																
			PZ-25RF3-E		●															
			PZ-35RF3-E			●														
			PZ-50RF3-E				●													
			PZ-65RF3-E					●												
			PZ-80RF3-E						●		●									
			PZ-100RF3-E							●		●								
		PZ-250TRF-E (Coarse 60% filter)	PZ-250TRF-E										●	●	●					
		PZ-S**RF-E (Coarse 50% filter)	PZ-S50RF-E													●				
			PZ-S80RF-E														●			
			PZ-S100RF-E															●		
		PZ-**RF8-E (Coarse 35% filter)	PZ-50RF8-E																●	
			PZ-100RF8-E																	●
	High-efficiency filter	PZ-**RFM3-E*1 (M6 filter)	PZ-15RFM3-E	●																
			PZ-25RFM3-E		●															
			PZ-35RFM3-E			●														
			PZ-50RFM3-E				●													
			PZ-65RFM3-E					●												
			PZ-80RFM3-E						●		●									
			PZ-100RFM3-E							●		●								
		PZ-250TMFR-E (M6 filter)	PZ-250TMFR-E										●	●	●					
		PZ-S**RFM-E (ePM10 80% filter)	PZ-S50RFM-E													●				
			PZ-S80RFM-E														●			
			PZ-S100RFM-E															●		
		PZ-**RFM-E (ePM10 75% filter)	PZ-50RFM-E																●	
			PZ-100RFM-E																	●
	Advanced high-efficiency filter	PZ-**RFP3-E (ePM1 75% filter)	PZ-15RFP3-E	●																
			PZ-25RFP3-E		●															
			PZ-35RFP3-E			●														
			PZ-50RFP3-E				●													
			PZ-65RFP3-E					●												
			PZ-80RFP3-E						●		●									
			PZ-100RFP3-E							●		●								
		PZ-**RFH3-E*1 (F8 filter)	PZ-15RFH3-E	●																
			PZ-25RFH3-E		●															
			PZ-35RFH3-E			●														
			PZ-50RFH3-E				●													
			PZ-65RFH3-E					●												
			PZ-80RFH3-E						●		●									
			PZ-100RFH3-E							●		●								
		PZ-250TPF-E (ePM1 75% filter)	PZ-250TPF-E										●	●	●					
		PZ-250THFR-E*1 (F8 filter)	PZ-250THFR-E										●	●	●					
		PZ-S**RFH-E (ePM1 65% filter)	PZ-S50RFH-E													●				
			PZ-S80RFH-E														●			
			PZ-S100RFH-E															●		
		PZ-**RFP2-E (ePM1 75% filter)	PZ-50RFP2-E																●	
			PZ-100RFP2-E																	●
CO_2 sensor		PZ-70CSD-E		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		PZ-70CSW-E		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Vertical installation plates		PZ-1VS-E		●	●	●	●													
		PZ-2VS-E						●	●	●										
Signal output terminal		PZ-4GS-E		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Duct silencer		PZ-100SS-E		●																
		PZ-150SS-E			●	●														
		PZ-200SS-E					●	●								●			●	
		PZ-250SS-E							●	●	●	●					●	●		●

*1: Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings) Note: Please refer to each product page for required number of pieces/sets.

Residential

Optional Parts for VL-CZPVU Series

Optional parts		Model		VL-250CZPVU-R/L-E	VL-350CZPVU-R/L-E	VL-500CZPVU-R/L-E
Filter	Replacement filter (Coarse 55% filter)	P-**F-E	P-250F-E	●		
			P-350F-E		●	
			P-500F-E			●
	Standard filter (Coarse 90% filter)	P-**SF-E	P-250SF-E	●		
			P-350SF-E		●	
			P-500SF-E			●
	Medium-efficiency filter (ePM10 80% filter)	P-**MF-E	P-250MF-E	●		
			P-350MF-E		●	
			P-500MF-E			●
	PM2.5 filter (ePM2.5 50% filter)	P-**PF-E	P-250PF-E	●		
			P-350PF-E		●	
			P-500PF-E			●
	PM1 filter (ePM1 55% filter)	P-**PFH-E	P-250PFH-E	●		
			P-350PFH-E		●	
			P-500PFH-E			●
	NOx filter	P-**NF-E	P-250NF-E	●		
			P-350NF-E		●	
			P-500NF-E			●
Silencer box		P-**SB-E	P-250SB-E	●		
			P-350SB-E		●	
			P-500SB-E			●
RC cover (remote controller cover)		P-RCC-E		●	●	●

*These optional parts are only compatible with models that have a serial number of 25010001 or later.

Optional Parts for VL-50

Optional parts		Model	VL-50S$_2$-E	VL-50ES$_2$-E	VL-50RS$_2$-E
Filter	Replacement filter	P-50F2-E (G3 Filter)	●	●	●
	High efficiency rilter	P-50HF2-E (ePM10 75% Filter)	●	●	●
Extension pipe		P-50P-E	●	●	●
Pipe extension joint		P-50PJ-E	●	●	●
Stainless hood		P-50VSQ5-E	●	●	●

⚠ NOTICE

Our air-conditioning equipments and heat pumps contain a fluorinated greenhouse gas, R290 (GWP: <3), 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. R290 (GWP: 0.02), 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 (R290, R410A or R32) to charge the refrigerant lines.
Do not mix it with any other refrigerant and do not allow air to remain in the lines.
If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards.
The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

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