

itsubishi lectric uality

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 2 0 5 0

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

#### Three Environmental Action Guidelines

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

Challenge to develop business innovations for future generations

Publicize and share new values and lifestyles

#### **Cey Initiatives**

- Climate Change Measures
- Resource Circulation
- Live in Harmony with
- Long-term Activities Innovation
- Nurturing Human
- 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.

"1kW" Heat Pump Principle (When Heating) <Case of COP 5.0> Refrigerant and Heat Circulation Outdoors Indoors "5kW" "4kW"

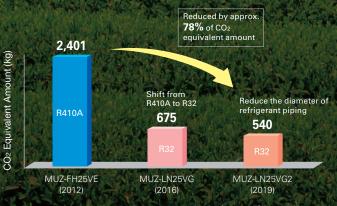


Mitsubishi Electric takes on the challenge of creating new value and contribute to a sustainable future in order to solve various environmental problems.

#### **Preventing Global Warming**

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

#### Reducing the amount of refrigerant usage



\* reduction rate difers model by model.

#### Effective use of materials (Reduce & Recycle)

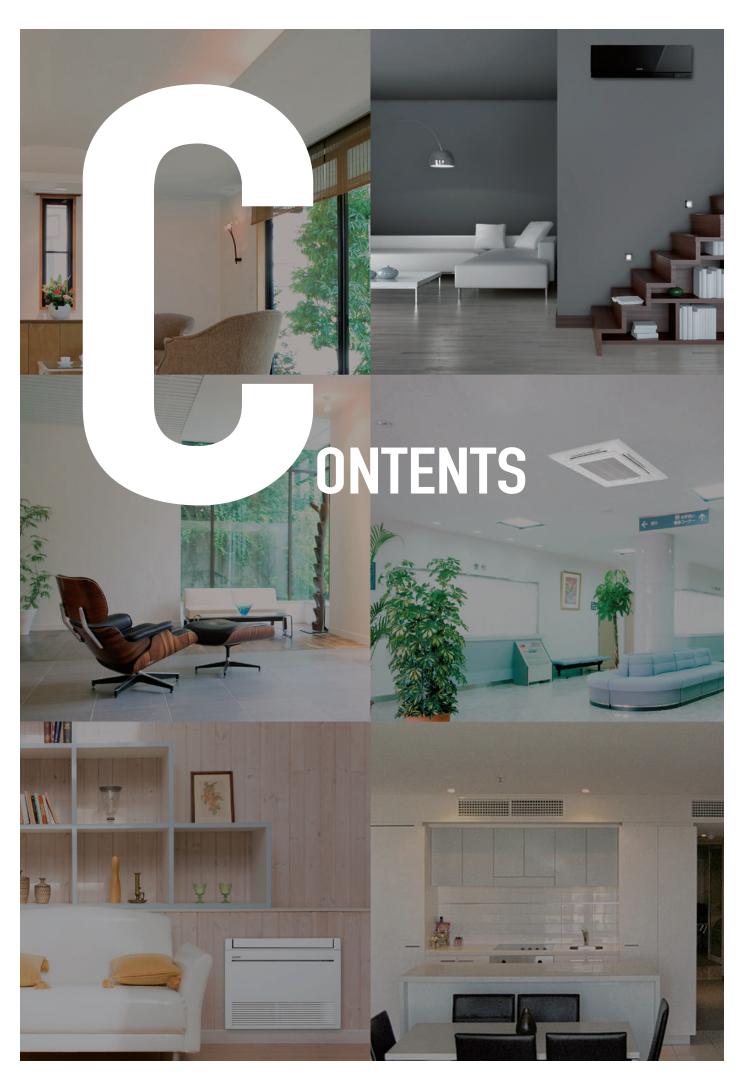
- Accelerating the downsizing technology to reduce material use while balancing energy saving performance.
- 2. Designing products that are easy to separate and recycle.
- 3. All models are designed for WEEE and RoHS (II) compliance.\*

'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.

Marie A.	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.



#### **Air Conditioners**

New releases	005-006
LINE-UP	007-010
M SERIES	011-054
S SERIES	055-068
P SERIES	069-106
MULTI SPLIT SERIES	107-118
VRF SERIES	119-130
Air Conditioners	
NEW ECODESIGN DIRECTIVE	131–132
COMFORT	133–134
AIR QUALITY	135–138
CONVENIENCE	139-140
INSTALLATION & MAINTENANCE	141-202
SYSTEM CONTROL	143-144
CONTROL TECHNOLOGIES	145-150
SYSTEM CONTROL	151–152
FUNCTION LIST	153-160
OPTIONAL PARTS	161–172
EXTERNAL DIMENSIONS	173-192
PIPING INSTALLATION	193–203
APPENDIX	204
M/S/P/Multi/Zubadan	
CONDITIONS FOR SPECIFICATIONS	205
REFRIGERANT AMOUNT	206
R32 REFRIGERANT	207-208
LOSSNAY SYSTEM	
FEATURES & SPECIFICATIONS	209-240



# New releases





PUZ-ZM100/125/140V/YDA P.75

RVXT3 SERIES



LGH-160/200/250RVXT3-E P.275

# LINE-UP

# M SERIES

Martel Na		1.5kW	1.8kW	2.0kW	2.2kW	2.5kW	3.5kW	4.2kW	5.0kW	6.0kW	7.1kW	Page
Model Nar	ne	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	1-phase	rage
	MSZ-RWVGHZ Series R32 R410A 2					SINGLE	SINGLE		SINGLE			13
	MSZ-LN Series R32 R410A *2		W-V-R-B Multi connection only			W-V-R-B SINGLE	W-V-R-B SINGLE		W-V-R-B SINGLE	W-V-R-B SINGLE		17
	MSZ-LNVGHZ Series R32 R410A *2					SINGLE	SINGLE		SINGLE			22
	MSZ-AY series MSZ-AY25/35/42/50VGK(P) MSZ-AY15/20VGK(P)	SINGLE		SINGLE		SINGLE	SINGLE	SINGLE	SINGLE			25
	MSZ-AP series R32 R410A *2									SINGLE	SINGLE	29
Wall- mounted	MSZ-E Series R32 R410A 12		W-S-B Multi connection only		W-S-B Multi connection only	W-S-B SINGLE H	W-S-B SINGLE	W-S-B SINGLE	W-S-B SINGLE			33
	MSZ-FT VGHZ Series					SINGLE	SINGLE		SINGLE			35
	MSZ-BT Series			SINGLE		SINGLE	SINGLE		SINGLE			37
	MSZ-HR Series MSZ-HR25/35/42/50VF(K)  MSZ-HR60/71VF(K)					SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	SINGLE	39
	MSZ-DW Series					SINGLE	SINGLE		SINGLE			41
	MSYTP Series						SINGLE		SINGLE			43
Compact	MFZ-KT Series					SINGLE	SINGLE		SINGLE	SINGLE		45
floor	MFZ-KW Series					SINGLE	SINGLE		SINGLE	SINGLE		47
1-way cassette	MLZ Series MLZ-KY20VG MLZ-KP25/35/50VG			Multi connection only		SINGLE	SINGLE		SINGLE			49

<sup>\*1:</sup> 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

Model Nan	ne	1.5kW 1-phase	2.5kW 1-phase	3.5kW 1-phase	5.0kW 1-phase	6.0kW 1-phase	7.1kW 1-phase	10.0kW 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	TWIN TRIPLE QUADRUPLE	TRIPLE QUADRUPLE	57
Compact ceiling- concealed	SEZ Series  R32 R410A		* SINGLE	* SINGLE	* SINGLE	* SINGLE	SINGLE	TWIN	TWIN TRIPLE QUADRUPLE	TRIPLE	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 *	SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	80
Ceiling-	PEAD Series R32 R410A	SINGLE	SINGLE	SINGLE	SINGLE *	SINGLE	SINGLE	SINGLE TWIN TRIPLE	TWIN TRIPLE QUADRUPLE	TWIN TRIPLE QUADRUPLE	87
concealed	PEA Series R32 R410A								SINGLE	SINGLE	90
Wall- mounted	PKA Series R32 R410A	* SINGLE	* SINGLE	* SINGLE	SINGLE * TWIN *	SINGLE	TWIN	TWIN	TWIN TRIPLE QUADRUPLE	TRIPLE	92
Ceiling- suspended	PCA-KA Series R32 R410A	SINGLE	SINGLE	SINGLE	SINGLE *	SINGLE	SINGLE	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	101

\* Power Inverter Model only

# LINE-UP

## MXZ SERIES INVERTER Models

Model Name	Capacity Class	Page
up to 2 indoor units MXZ-2F33VF4	3.3kW <1-phase>	109
up to 2 indoor units MXZ-2F42VF4	4.2kW <1-phase>	109
up to 2 indoor units MXZ-2F53VF(H)4	5.3kW <1-phase>	109
up to 3 indoor units MXZ-3F54VF4	5.4kW <1-phase>	109
up to 3 indoor units MXZ-3F68VF4	6.8kW <1-phase>	109
up to 4 indoor units MXZ-4F72VF4	7.2kW <1-phase>	109
up to 4 indoor units MXZ-4F80VF4	8.0kW <1-phase>	109
up to 4 indoor units MXZ-4F83VF2	8.3kW <1-phase>	109
up to 5 indoor units MXZ-5F102VF2	10.2kW <1-phase>	109
up to 6 indoor units MXZ-6F120VF2	12.0kW <1-phase>	109
up to 2 indoor units MXZ-2HA40VF2	4.0kW <1-phase>	114
up to 2 indoor units MXZ-2HA50VF2	5.0kW <1-phase>	114
up to 3 indoor units MXZ-3HA50VF2	5.0kW <1-phase>	114

## MXZ-VFHZ SERIES INVERTER Models

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

\* R410A is for PUMY connection.

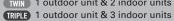
H: Freeze-prevention heater is included as standard equipment.

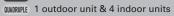
## PUMY SERIES INVERTER Models

Model Name		12.5kW	14.0kW	15.5kW	22.4kW	28.0kW	33.5kW	Page
woder Name		1 & 3-phase	1 & 3-phase	1 & 3-phase	3-phase	3-phase	3-phase	1 age
PUMY-SP R410A		1	✓	✓				121
PUMY-P R410A		1	1	1	1	1	1	123
PUMYSM R32	0	1	1	1				125

#### **Indoor Combinations**

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





## **LOSSNAY** SERIES

Comr	nercial	Residential				
Ceiling Con	cealed Type	Vertical Type	Wall Mounted Type			
LGH-RVX3 Series	LGH-RVXT3 Series					
		VL-CZPVU Series	VL-50(E)S <sub>2</sub> -E VL-50SR <sub>2</sub> -E			
LGH-RVS Series	GUF Series	1				



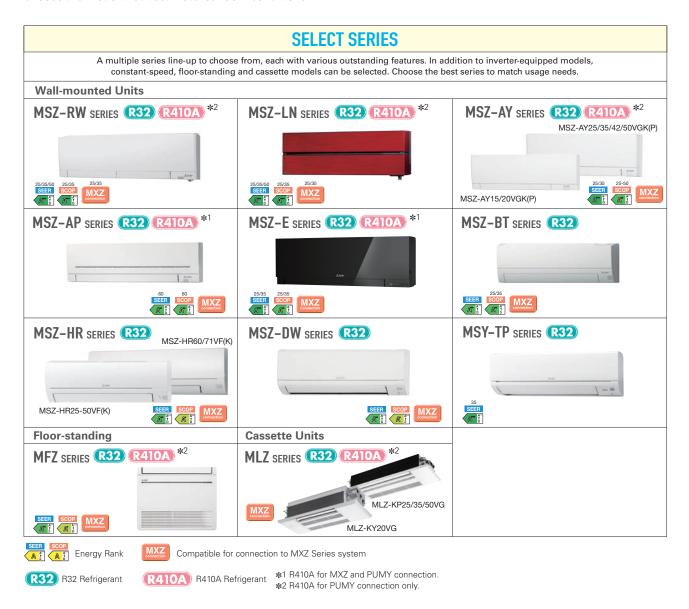






#### **SELECTION**

Choose the model that best matches room conditions.



#### **SELECT OUTDOOR UNIT**

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

#### **Heater Installed** MUZ-AY25/35/42/50VGH

MUZ-EF25/35VGH



#### **Hyper Heating**

MUZ-RW25/35/50VGHZ MUZ-LN25/35/50VGHZ MUZ-FT25/35/50VGHZ 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  $^{\circ}\text{C}$  all day)
- Areas where dew forms easily (in the mountains, valleys(surrounded by mountains), near a forest, near unfrozen lakes, ponds, rivers or hot springs), or areas with snowfall.

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

# SZ-RW SERIES

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





MS7-RW25/35/50VG

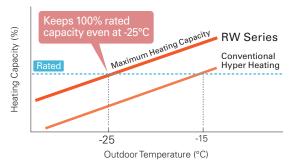
#### **Heating Performance**

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

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



#### Improved Heating Capacity



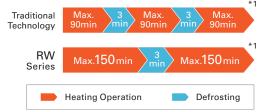
According to the optimal conditions observed in the lab test.

#### **Wider Heating Operation Range**



#### **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.



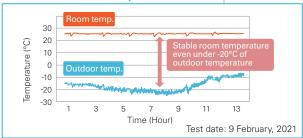
<sup>\*1</sup> The time for heating and defrosting operation depends on the environmental conditions

#### Tested in Sweden and Norway

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



#### Test result in Norway



#### 3D i-see Sensor

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





\*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 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 99.8% of adhered COVID-19. \*2



\*Images are for illustration purposes

99% inhibited\*1

Virus (Airborne)

- \*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
- 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.

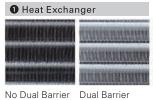






Mitsubishi Electric's Dual Barrier Coating prevents dust and greasy dirt from accumulating on the inner surface of the indoor unit; keeping your air conditioner clean. Two barrier coating prevents hydrophilic dirt penetration, and "hydrophilic particles" prevent hydrophobic dirt from getting into the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





No Dual Barrier Coating used Coating used



No Dual Barrier Coating used



**Dual Barrier** Coating used



No Dual Barrier Coating used (Image after 10 years)

**Dual Barrier** Coating used



\*Image is for illustration purposes





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 vear round.

# 4 Horizontal Vane

No Dual Barrier Dual Barrier Material



No Dual Barrier **Dual Barrier** Material

<sup>\*</sup>Comparison of stains after 10 years of use (based on internal research)

<sup>\*1 \*2</sup> 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.htm

#### **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.

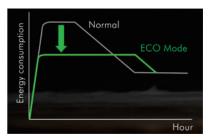
#### Wide Room Mode

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.



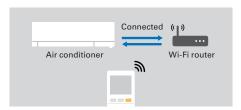
#### Built-in Wi-Fi & App Control

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.



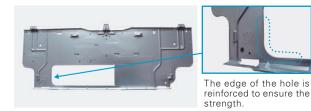
#### Remote Controller with Backlight

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.



#### **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















#### Indoor Unit / Remote Controller

#### <White>





#### **Outdoor Unit**







MUZ-RW50VGHZ

































































Туре					Inverter Heat Pump	
Indoor Ur	nit			MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG
Outdoor I	Jnit			MUZ-RW25VGHZ	MUZ-RW35VGHZ	MUZ-RW50VGHZ
Refrigera	nt				R32 (*1)	
Power	Source				Outdoor Power supply	
Supply	Outdoor (V/Phase/H	lz)			230/Single/50	
Cooling	Design Load		kW	2.5	3.5	5.0
	Annual Electricity Co	onsumption (*2)	kWh/a	78	130	230
	SEER (*4)			11.2	9.4	7.6
		Energy Efficiency Class		A+++	A+++	A++
	Capacity	Rated	kW	2.5	3.5	5.0
		Min - Max	kW	0.9 - 3.5	1.0 - 4.0	1.4 - 5.8
	Total Input	Rated	kW	0.435	0.770	1.380
Heating	Design Load		kW	3.2	4.0	6.0
(Average	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)
Season)(*5		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 Cap		kW	0.0	0.0	0.0
	Annual Electricity Co	onsumption (*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
Operatin	g Current (max)		А	9.8	11.2	15.2
Indoor	Input	Rated	kW	0.021	0.022	0.041
Unit	Operating Current (r	nax)	А	0.21	0.22	0.37
	Dimensions	H*W*D	mm	305 - 998 - 247	305 - 998 - 247	305 - 998 - 247
	Weight		kg	14.5	14.5	14.5
	Air Volume	Cooling	m³/min	5.1 - 6.5 - 9.0 - 11.5 - 13.7	5.1 - 6.9 - 9.0 - 11.5 - 14.1	7.8 - 9.5 - 11.1 - 13.1 - 16.2
	(SLo-Lo-Mid-Hi-SHi (*	Heating	m³/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)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	26 - 30 - 34 - 39 - 45
	(SLo-Lo-Mid-Hi-SHi (*	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	Dimensions	H*W*D	mm	714 - 800 - 285	714 - 800 - 285	880 - 840 - 330
Unit	Weight		kg	39.5	40	54
	Air Volume	Cooling	m³/min	35.1	37.8	49.3
		Heating	m³/min	37.8	37.8	55.6
	Sound Level (SPL)	Cooling	dB(A)	46	49	51
		Heating	dB(A)	49	50	54
	Sound Level (PWL)	Cooling	dB(A)	60	61	64
	Operating Current (r	nax)	Α	9.6	11.0	14.8
	Breaker Size		Α	10	12	16
Ext.	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52
Piping	Max. Length	Out-In	m	20	20	30
	Max. Height	Out-In	m	12	12	15
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
[Outdoor]		Heating	°C	−30 ~ +24	-30 ~ +24	−30 ~ +24

<sup>(\*1)</sup> 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 COz, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. 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



MS7-I N18/25/35/50/60VG2

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**

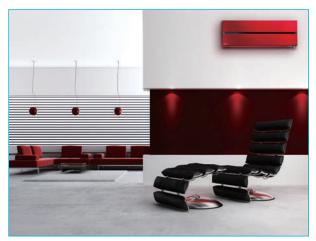
Natural White, Pearl White, Ruby Red, and Onyx Black. LN Series indoor units are available in four colours to match various lifestyles. The appearance of the indoor unit differs depending on the lighting in the room, attracting the attention of everyone that enters the room.



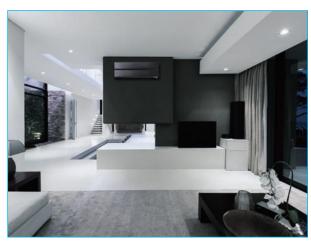
Master craftsmanship painting technology has resulted in a refined design, giving the finish deep colour and a premium guality feel.



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.









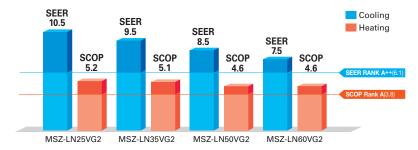


by Or d Bla

Natural White

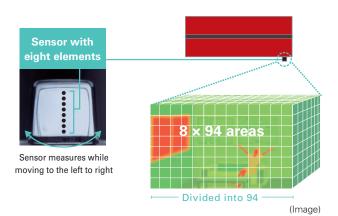
#### **High Energy Efficiency**

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



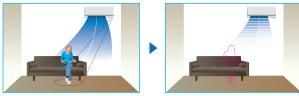
#### 3D i-see Sensor

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



#### No occupancy energy-saving mode

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



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

#### **Indirect Airflow**

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



#### **Direct Airflow**

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



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



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

#### Even airflow mode



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

#### No 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**

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.



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

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  $25 \mathrm{m}^3$  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  $25\mathrm{m}^3$  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<sup>3</sup> 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<sup>3</sup> test space.

<In-company investigation>

#### Dust



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

<Test No.> ITEA Report No. T1606028

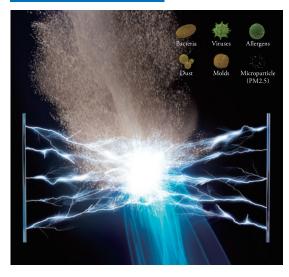
Model	Name	Method	Bacteria	Viruses	Molds	Allergens	Dust	PM2.5*
FH Series	Plasma Quad	One-Stage Plasma	А	А	В	В	С	
LN Series	Plasma Quad Plus	Two-Stage Plasma	А	А	А	А	А	А

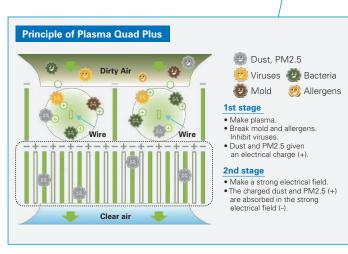
- A: Highly effective
- B: Effective
- C: Partially effective

\*PM2.5:

Particles smaller than 2.5µm

#### Image of Plasma Quad Plus





## **Dual Barrier Coating**

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





\*Image is for illustration purposes.

#### 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)



# The inside of the indoor unit gets dirty after many years of usage. Heat exchanger New 10 years later (image) New 10 years later (image) Deterioration in energy efficiency Musty smell from the unit

<sup>\*1</sup> 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.

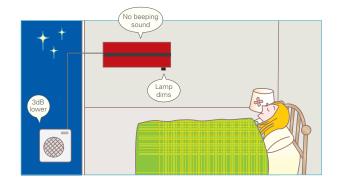




#### Night Mode

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

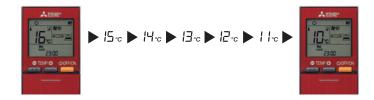
- The brightness of the operation indicator lamp will become dimmer.
- The beeping sound will be disabled.
- The outdoor operating noise will drop to 3dB lower than the rated operating noise specification.



#### 10°C Heating

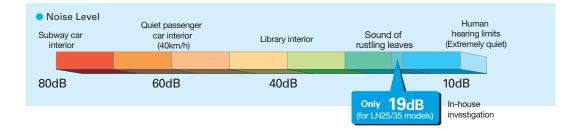
During heating operation, the temperature can be set in 1°C increments down to 10°C.

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.



<sup>\*</sup>The cooling/heating capacity may drop.

# LIVING R32 R410A Single / MXZ, PUMY PUMY SERIES

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

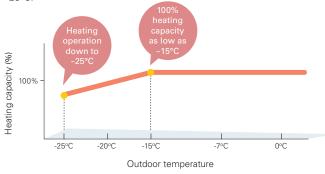




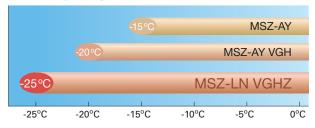
MSZ-LN25/35/50VG2(W)(V)(R)(B)

#### **Unparalleled Heating Performance**

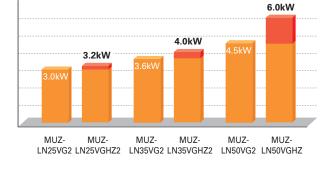
LN Series outdoor units are equipped with a high-output compressor that provides enhanced heating performance under low outdoor temperatures. The heating operation range is extended down to -25°C



#### **Operating Range**



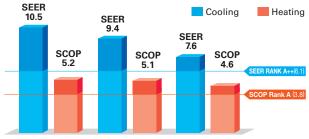
#### Declared Capacity (at reference design temperature)



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



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



MUZ-LN25VGHZ2 MUZ-LN35VGHZ2 MUZ-LN50VGHZ

## Freeze-prevention Heater Equipped as Standard

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

### Can operate at Outdoor temperature temperature of -25°C





Without Freeze-prevention heater

With Freeze-prevention heater

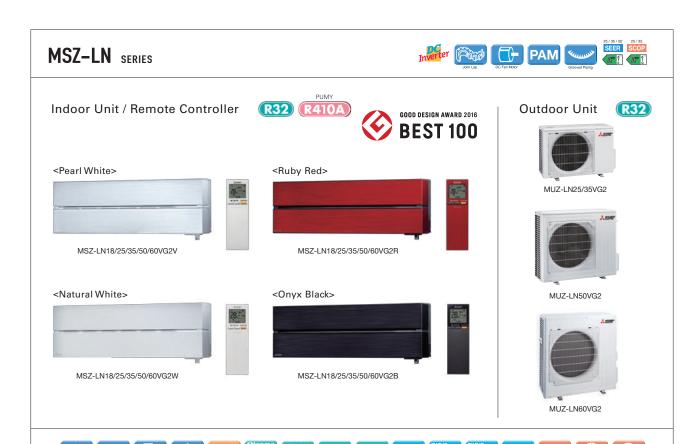
\*Image is for illustration purposes. The actual performance depends on outdoor temperature.

#### 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.







							<u> </u>	
Туре						Inverter Heat Pump		
Indoor Ur	nit			MSZ-LN18VG2	MSZ-LN25VG2	MSZ-LN35VG2	MSZ-LN50VG2	MSZ-LN60VG2
Outdoor l	Jnit			for MXZ connection	MUZ-LN25VG2	MUZ-LN35VG2	MUZ-LN50VG2	MUZ-LN60VG2
Refrigerar	nt				Sir	ngle: R32 <sup>(1)</sup> / Multi: R410A or R32	2(*1)	
Power	Source					Outdoor Power Supply		
Supply	Outdoor (V/Ph	ase / Hz )				230 / Single / 50		
	Design load		kW	-	2.5	3.5	5.0	6.1
	Annual electricity	consumption (*2)	kWh/a	-	83	129	205	285
	SEER (*4)			-	10.5	9.5	8.5	7.5
Cooling		Energy efficiency class	;	-	A+++	A+++	A+++	A++
	Capacity	Rated	kW	-	2.5	3.5	5.0	6.1
	Capacity	Min-Max	kW	-	1.0 - 3.5	0.8 - 4.0	1.0 - 6.0	1.4 - 6.9
	Total Input	Rated	kW	-	0.485	0.820	1.380	1.790
	Design load		kW	-	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
	D. dend	at reference design temperature		-	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
	Declared Capacity	at bivalent temperature	kW	-	3.0 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	6.0 (-10°C)
	Capacity	at operation limit temperature	kW	-	2.5 (-15°C)	3.2 (-15°C)	4.2 (-15°C)	6.0 (-15°C)
Heating	Back up heating	capacity	kW	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
(Average	Annual electricity	consumption (*2)	kWh/a	-	807	987	1369	1816
Season)(*5)	SCOP (*4)			-	5.2	5.1	4.6	4.6
		Energy efficiency class	;	-	A+++	A+++	A++	A++
	0	Rated	kW	=	3.2	4.0	6.0	6.8
	Capacity	Min-Max	kW	=	0.7 - 5.4	0.9 - 6.3	1.0 - 8.2	1.8 - 9.3
	Total Input	Rated	kW	-	0.600	0.820	1.480	1.810
Operating	g Current (Max)	`	A	-	7.1	9.9	13.9	15.2
	Input	Rated	kW	0.027	0.027	0.027	0.034	0.040
	Operating Current(Max)		Α	0.3	0.3	0.3	0.4	0.4
	Dimensions	H*W*D	mm	307-890-233	307-890-233	307-890-233	307-890-233	307-890-233
	Weight		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)
Indoor Unit	Air Volume (SLo-	Cooling	m³/min	4.7 - 5.9 - 7.1 - 9.2 - 12.4	4.7 - 5.9 - 7.1 - 9.2 - 12.4	4.7 - 5.9 - 7.1 - 9.2 - 13.0	5.7 - 7.6 - 8.8 - 10.6 - 13.9	7.1 - 8.8 - 10.6 - 12.7 - 15.7
Onit	Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	m³/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)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46	29 - 37 - 41 - 45 - 49
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	19 - 24 - 29 - 38 - 45	19 - 24 - 29 - 38 - 45	19 - 24 - 29 - 38 - 45	25 - 29 - 34 - 39 - 47	29 - 37 - 41 - 45 - 49
	Sound Level (PWL)	Cooling	dB(A)	58	58	59	60	65
	Dimensions	H*W*D	mm	=	550-800-285	550-800-285	714-800-285	880-840-330
	Weight	•	kg	=	33	34	40	53
	Air Volume	Cooling	m³/min	=	34.3	34.3	40.0	48.8
	Air Volume	Heating	m³/min	-	32.7	32.7	40.5	55.0
Outdoor Unit	Sound Level (SPL)	Cooling	dB(A)	-	46	49	51	55
O.III	Souriu Level (SPL)	Heating	dB(A)	-	49	50	54	55
	Sound Level (PWL)	Cooling	dB(A)	-	60	61	64	65
	Operating Curre	nt (Max)	Α	-	6.8	9.6	13.5	14.8
	Breaker Size		Α	-	10	10	16	16
	Diameter	Liquid/Gas	mm	=	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
Ext. Piping	Max.Length	Out-In	m	=	20	20	30	30
. iping	Max.Height	Out-In	m	=	12	12	12	15
Guarante	ed Operating	Cooling	°C	=	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (O	utdoor)	Heating	°C	=	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24

<sup>(1)</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

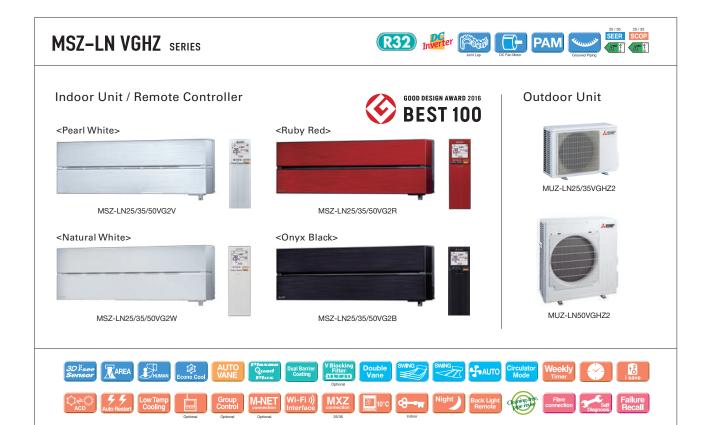
The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(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.



Туре					Inverter Heat Pump					
Indoor Un	it			MSZ-LN25VG2(W)(V)(R)(B)	MSZ-LN35VG2(W)(V)(R)(B)	MSZ-LN50VG2(W)(V)(R)(B)				
Outdoor U	Jnit			MUZ-LN25VGHZ2	MUZ-LN35VGHZ2	MUZ-LN50VGHZ2				
Refrigerar	nt			R32 (*1)						
Power	Source			Outdoor Power supply						
Supply	Outdoor (V/Phase/H	lz)		230/Single/50						
Cooling	Design Load		kW	2.5	3.5	5.0				
	Annual Electricity Co	onsumption (*2)	kWh/a	83	130	230				
	SEER (*4)			10.5	9.4	7.6				
		Energy Efficiency Class		A+++	A+++	A++				
	Capacity	Rated	kW	2.5	3.5	5.0				
		Min - Max	kW	0.8 - 3.5	0.8 - 4.0	1.4 - 5.8				
	Total Input	Rated	kW	0.485	0.820	1.380				
Heating	Design Load		kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)				
(Average	Declared Capacity	at reference design temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)				
Season)(*5)		at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	6.0 (-10°C)				
		at operation limit temperature	kW	2.3 (-25°C)	3.1 (-25°C)	4.7 (-25°C)				
	Back Up Heating Capacity			0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)				
	Annual Electricity Co	onsumption (*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	g Current (max)		Α	9.9	10.5	15.2				
Indoor	Input Rated			0.027	0.027	0.034				
Unit	Operating Current (max)			0.3	0.3	0.4				
	Dimensions H*W*D		mm	307 - 890 - 233	307 - 890 - 233	307 - 890 - 233				
	Weight	<u> </u>	kg	15.5	15.5	15.5				
	Air Volume	Cooling	m³/min	4.3 - 5.8 - 7.1 - 8.8 - 11.9	4.3 - 5.8 - 7.1 - 8.8 - 12.8	5.7 - 7.6 - 8.9 - 10.6 - 13.9				
	(SLo-Lo-Mid-Hi-SHi(*	Heating	m³/min	4.0 - 5.7 - 7.1 - 8.5 - 14.4	4.3 - 5.7 - 7.1 - 8.5 - 13.7	5.4 - 6.4 - 8.5 - 10.7 - 15.7				
	Sound Level (SPL)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 24 - 29 - 36 - 43	27 - 31 - 35 - 39 - 46				
	(SLo-Lo-Mid-Hi-SHi(*	Heating	dB(A)	19 - 24 - 29 - 36 - 45	19 - 24 - 29 - 36 - 45	25 - 29 - 34 - 39 - 47				
	Sound Level (PWL)		dB(A)	58						
	Dimensions	H*W*D	mm	550 - 800 - 285	550 - 800 - 285	880 - 840 - 330				
Unit	Weight	1	kg	35	36	53				
	Air Volume	Cooling	m³/min	31.4	33.8	48.8				
		Heating	m³/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)			60	61	64				
	Operating Current (n	nax)	А	9.6	10.2	14.8				
	Breaker Size		Α	10	12	16				
Ext.	Diameter	Liquid / Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52				
Piping	Max. Length	Out-In	m	20	20	30				
	Max. Height	Out-In	m	12	12	15				
			°C	-10 ~ +46	-10 ~ +46	-10 ~ +46				
[Outdoor]		Heating	°C	−25 ~ +24	-25 ~ +24	-25 ~ +24				

<sup>(\*1)</sup> 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 CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

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

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

(\*3) SHi: Super High

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

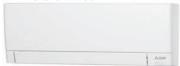
(\*5) Please see page 57-58 for heating (warmer season/colder season) specifications.

# 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.



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



#### **High Energy Saving**



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

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







#### Matt and Sophisticated Design

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



#### Rounded corners

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

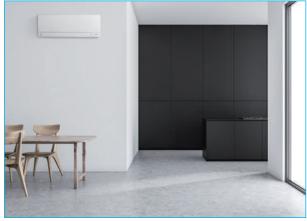
#### Simple and Compact size

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

#### **Widely Ranged Capacities**

Compact and stylish models are available.

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



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



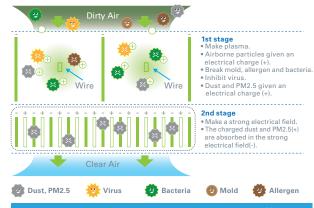
MSZ-AY15/20VGK(P)

### 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 nonwoven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.

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

Bacteria Test method: JIS L 1902, Tested Organization: Boken Quality Evaluation

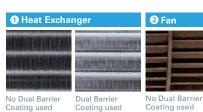
Institute, Test Report No: 29020006998-1, Test result: 99% neutralized in 18 hours in a Petri dish.

Mold Test method: JIS Z 2911, Tested Organization: Boken Quality Evaluation Institute, Test Report No: 29020006906-1, Test result: No moldgrowth was confirmed. Allergen Test method: ELISA, Tested Organization: Daiwa Chemical Industries Co., Ltd, Test Report No: 2021B267, Test result: 96% neutralized in 24 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.





Coating used (Image after 10 years)



**Dual Barrier** Coating used



No Dual Barrier **Dual Barrier** Coating used (Image after 10years)



 Heat Exchanger -886-8888 -888-88K ----



#### Self Clean

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

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



Airflow operation suppresses mycelial growth.



\*When SELF CLEAN operation is set, it performs for 25 minutes when unit is stopped after COOL/DRY operation.

SELF CLEAN operation performs when: COOL/DRY is operated more than 3 minutes.

The fan is stopped for the first 3 minutes. Then, the horizontal vane is set to higher than angle 1 and the fan is operated for 25 minutes.

To enable this function, press "Self Clean Mode" button on remote controller. (Default setting is OFF)

Maintains clean unit interior.



\*Image is for illustration purposes



# Noiseless 18dB

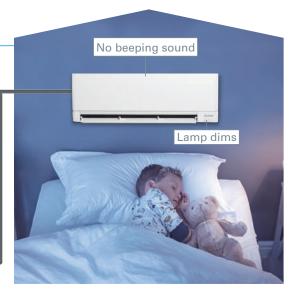
Quiet, relaxing space is within reach. Operational noise is 18dB (for AY25/35 single connection), which is so quiet that you might even forget the air conditioner is on.

### 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.





#### 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** AY series -15°C -20°C Outdoor Temperature (°C)

#### **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.

MUZ-AY25/35/42VG

MUZ-AY50VG



MUZ-AY25/35/42VGH

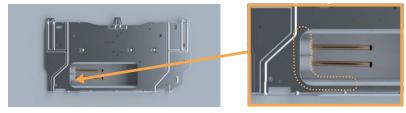
MUZ-AY50VGH

27

<sup>\*</sup>The cooling/heating capacity may drop.

#### Back Plate with a Hole

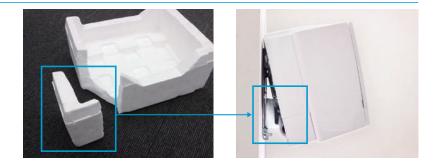
With a hole as default in the center of the back plate, the piping can be easily taken out from the back. The edge of the hole is reinforced to ensure the strength.



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.

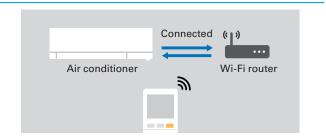
[ key control and monitoring features ]

- 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

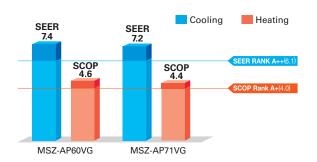
Introducing a compact and stylish indoor unit with various capacity, designed to match number of rooms. High performance indoor and outdoor units enabled to achieve "Rank  $A^{++}$ " for SEER.



#### **High Energy Saving**



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

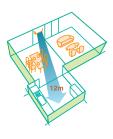
The wide and long airflow function is especially beneficial for large spaces, helping to ensure that air is well circulated and reaches every corner of the room.

#### 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

#### "WeeklyTimer"

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

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

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.	
6:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	
			Automatically change	es to high-power opera	tion at wake-up time			
8:00								
10:00								
12:00	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C	
		Automatic	ally turned off during v	vork hours		Midday is warmer, so the temperature is set lower		
14:00								
IP:00								
18:00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	
50:00		Automatically turns on, syn		th arrival at home		Automatically raises ten	nperature setting to le-air temperature is low	
55:00								
(during sleeping hours)	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	
		Automa	tically lowers tempera	ture at bedtime for ene	ergy-saving operation a	t night		

Settings

Pattern Settings: Input up to four settings for each day

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

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





- 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







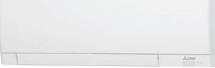












MSZ-AY15/20VGK(P)





**Outdoor Unit** 



**R32** 

MUZ-AY20VG





MUZ-AY50VG(H)



Remote Controller



















































































	frigerant				H32 "									
Power	Source			Outdoor Power supply 230/Single/50										
Supply	Outdoor (V / Ph	ase / Hz )												
	Design load	440	kW	1.5	2.0	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0	
	Annual electricity	consumption (*2)	kWh/a	72	81	100	100	141	141	186	186	232	232	
	SEER (*4)			7.2	8.6	8.7	8.7	8.7	8.7	7.9	7.9	7.5	7.5	
Cooling		Energy efficiency class		A++	A+++	A+++	A+++	A+++	A+++	A++	A++	A++	A++	
	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	
	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	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)	
	Capacity	at bivalent temperature	kW	1.6 (-10°C)	2.3 (-10°C)	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	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)	
Heating	Back up heating		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	
(Average		y consumption (*2)	kWh/a	558	766	697	709	863	880	1131	1146	1248	1265	
Season)(*5)	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++	
		Rated	kW	2.0	2.5	3.2	3.2	4.0	4.0	5.2	5.2	5.5	5.5	
	Capacity	Min	kW	0.5	0.5	1.0	1.0	1.3	1.3	1.3	1.3	1.4	1.4	
		Max at 7°C	kW	3.1	3.5	4.1	4.1	4.6	4.6	6.0	6.0	7.3	7.3	
	Total Input	Rated	kW	0.500	0.600	0.780	0.780	1.030	1.030	1.390	1.390	1.470	1.470	
Operating	g Current (Max)		Α	5.5	7.0	7.6	7.6	7.6	7.6	9.9	9.9	13.8	13.8	
	Input	Rated	kW	0.017	0.019	0.026	0.026	0.026	0.026	0.032	0.032	0.032	0.032	
	Operating Curre		Α	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	
Indoor	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	
Unit	Air Volume	Cooling	m³/min		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	
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	m³/min		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						
	Sound Level (SPL)	Cooling	dB(A)	19 <sup>(16)</sup> - 26 - 30 - 35 - 40	19 <sup>(16)</sup> - 26 - 30 - 35 - 42	18 - 24 - 30 - 36 - 42		18 - 24 - 30 - 36 - 42		21 - 29 - 34 - 38 - 42			28 - 33 - 36 - 40 - 44	
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	19 <sup>(16)</sup> - 26 - 30 - 35 - 40	19 <sup>(16)</sup> - 26 - 30 - 35 - 42	18 - 24 - 34 - 39 - 45		18 - 24 - 31 - 38 - 45	18 - 24 - 31 - 38 - 45		21 - 29 - 35 - 40 - 45		28 - 33 - 38 - 43 - 48	
	Sound Level (PWL)	Cooling	dB(A)	54	57	57	57	57	57	57	57	58	58	
	Dimensions	H*W*D	mm	538-699-249	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285	714-800-285	
	Weight	0 "	kg	23	27.5	27	27	28.5	28.5	34	34	40.5	40.5	
	Air Volume	Cooling	m³/min	26	32.2	32.2	32.2	32.2	32.2	32	32	40.5	40.5	
Outdoor		Heating	m³/min	21	29.8	29.8	29.8	29.8	29.8	28.1	28.1	37.4	37.4	
Unit	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	Liquid/Gas	Α	10	10	10 6.35 / 9.52	10 6.35 / 9.52	10	10 6.35 / 9.52	10 6.35 / 9.52	10 6.35 / 9.52	16	16 6.35 / 9.52	
	Diameter Chargeless piping lengh	Out-In	mm	6.35 / 9.52 7.5	6.35 / 9.52 7.5	7.5	7.5	6.35 / 9.52 7.5	7.5	7.5	7.5	6.35 / 9.52 7.5		
Ext. Piping			m	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5		7.5	
inhing	Max.Length	Out-In Out-In	m	12	12	12	12	12	12	12	12	20 12	12	
	Max.Height		°C											
	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46 -20 ~ +24	-10 ~ +46	-10 ~ +46	-10 ~ +46 -20 ~ +24	-10 ~ +46	-10 ~ +46	-10 ~ +46	
Range (Outdoor)		Heating	L	-15 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	-20 ~ +24	

Heating C -10 - 740 -10 -740 -10 (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 with variety ourself and always ask a professional.

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

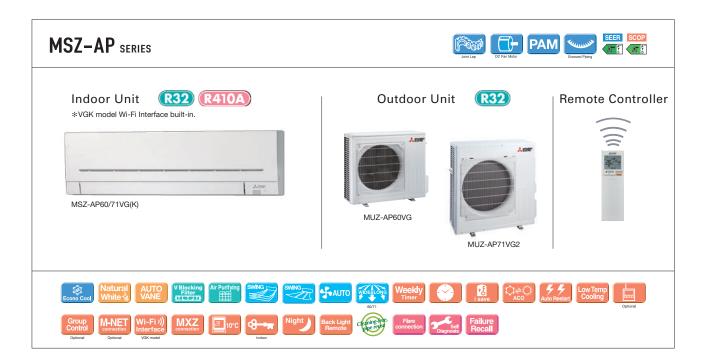
(2) Energy consumption based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

(3) SHE: Super High

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

(5) Please see page 57-58 for heating (warmer season) specifications.

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



Туре				Inverter Heat Pump						
Indoor Ur	nit			MSZ-AP60VG(K)	MSZ-AP71VG(K)					
Outdoor I	Unit			MUZ-AP60VG	MUZ-AP71VG					
Refrigera	nt			Single: R32 <sup>(1)</sup> / Multi: R32 <sup>(1)</sup>						
Power	Source			Outdoor Power supply						
Supply	Outdoor (V / Ph	ase / Hz )			ngle / 50					
	Design load		kW	6.1	7.1					
	Annual electricity consumption (*2)			288	345					
	SEER (*4)			7.4	7.2					
Cooling	OLLIN	Energy efficiency class		A++	A++					
Cooming		Rated	kW	6.1	7.1					
	Capacity	Min-Max	kW	1.4-7.3	2.0-8.7					
	Takal lawas		kW	1.590	2.010					
	Total Input	Rated		***	1 1					
	Design load		kW	4.6 (-10°C)	6.7 (-10°C)					
	Declared	at reference design temperature		4.6 (-10°C)	6.7 (-10°C)					
	Capacity	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)					
Heating	Back up heating capacity kW			0.0 (-10°C)	0.0 (-10°C)					
(Average	Annual electricity consumption (*2) kWh/a			1398	2126					
Season)(*5)	SCOP (*4)			4.6	4.4					
		Energy efficiency class		A++	A+					
		Rated	kW	6.8	8.1					
	Capacity	Min-Max	kW	2.0-8.6	2.2-10.3					
	Total Input Rated		kW	1.670	2.120					
Operatin	g Current (Max)		А	14.1	2.120 16.4					
			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					
Indoor	-		m³/min	9.4 - 11.0 - 13.2 - 16.0 - 18.9	9.6 - 11.5 - 13.2 - 15.3 - 18.6					
Unit	Air Volume (SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	m³/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 <sup>(*3)</sup> )	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					
	Dimensions	H*W*D	mm	714-800-285	880-840-330					
	Weight		kg	40	53					
	Air Volume	Cooling	m³/min	52.1	63.7					
Outdoor		Heating	m³/min	52.1	57.7					
Unit	Sound Level (SPL)	Cooling	dB(A)	56	56					
J	Country Level (GPL)	Heating	dB(A)	57	55					
	Sound Level (PWL)	Cooling	dB(A)	69	69					
	Operating Current (Max)			13.6	16.0					
	Breaker Size A		А	16	20					
	Diameter	Liquid/Gas	mm	6.35 / 12.7	6.35 / 12.7					
Ext.	Max.Length	Out-In	m	30	30					
Piping	Max.Height	Out-In	m	15	15					
Guarante	eed Operating	Cooling	*C	-10 ~ +46	-10 ~ +46					
Range (C		Heating	°C	-15 ~ +24	-15 ~ +24					
90 (0		i iouuiig		-10 ~ T24	-10 ~ T24					

<sup>(1)</sup> Retrigerant leakage contributes to climate change. Retrigerant 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 682 is 675 in the IPCC 4th Assessment the product yourself or dard 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) SHs. 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.









MS7-E

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 bestmatch scenario for diverse interior designs while simultaneously ensuring maximum room and energy savings.







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

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

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

Noise Level

#### 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

#### Human hearing limits Subway car car interio Sound of Library interior (40km/h) rustling leaves (Extremely quiet) 10dB 80dB 60dB 40dB 19<sub>dB</sub> 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.

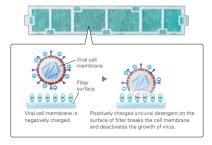


#### V Blocking Filter

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

and allergen.

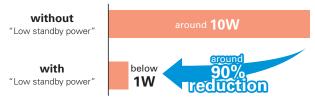
Two-layered filter with non-woven fabric and electrostatic filter can effectively capture and remove small particles from the air in your room.



#### Low Standby Power

Quiet passenger

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.



#### MSZ-E SERIES









Outdoor Unit





**R32** 













reddot award 2015 winner



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



MUZ-EF50VG









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

- $\ensuremath{\bigstar}$  Soft-dry Cloth is enclosed with Black models.
- \* VGK model Wi-Fi interface built-in











































Type				Inverter Heat Pump									
Indoor Ur	nit			MSZ-EF18VG(K)	MSZ-EF22VG(K)	MSZ-EF25VG(K)	MSZ-EF25VG(K)	MSZ-EF35VG(K)	MSZ-EF35VG(K)	MSZ-EF42VG(K)	MSZ-EF50VG(K)		
Outdoor l				. ,	onnection	MUZ-EF25VG	MUZ-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH	MUZ-EF42VG	MUZ-EF50VG		
Refrigerar				R32 <sup>(1)</sup>									
Power Source				Outdoor Power supply									
Supply	Outdoor (V / Ph	ase / Hz )		230/Sinole/50									
	Design load	,	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0		
	Annual electricity consumption (*2)		kWh/a	-	-	96	96	139	139	186	233		
Cooling	SEER (*4)			-	-	9.1	9.1	8.8	8.8	7.9	7.5		
		Energy efficiency class		-	-	A+++	A+++	A+++	A+++	A++	A++		
		Rated	kW	-	-	2.5	2.5	3.5	3.5	4.2	5.0		
	Capacity	Min-Max	kW	-	-	0.9-3.4	0.9-3.4	1.1-4.0	1.1-4.0	0.9-4.6	1.4-5.4		
	Total Input	Rated	kW	-	-	0.540	0.540	0.910	0.910	1.200	1.540		
	Design load		kW	-	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)		
		at reference design temperature	kW	=	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)		
	Declared Capacity	at bivalent temperature	kW	=	-	2.4 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.2 (-10°C)		
	Capacity	at operation limit temperature	kW	=	-	2.0 (-15°C)	1.6 (-20°C)	2.4 (-15°C)	1.7 (-20°C)	3.4 (-15°C)	3.5 (-15°C)		
Heating	Back up heating	capacity	kW	-	-	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)		
(Average	Annual electricity	consumption (*2)	kWh/a	-	-	713	727	882	900	1151	1304		
Season)(*5)	SCOP (*4)			-	-	4.7	4.6	4.6	4.5	4.6	4.5		
		Energy efficiency class		-	-	A++	A++	A++	A+	A++	A+		
	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			-	-	0.700	0.700	0.950	0.950	1.455	1.560		
Operating	g Current (Max)		Α	-	-	7.1	7.1	7.1	7.1	10.0	14		
	Input	Rated	kW A	0.026	0.026	0.026	0.026	0.030	0.030	0.033	0.043		
		Operating Current (Max)		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		
Indoor	Weight		kg	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5		
Unit	Air Volume	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 - 6.8 - 7.9 - 9.2 - 11.3		
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	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		6.4 - 7.2 - 9.0 - 11.1 - 14.6		
	Sound Level (SPL)	Cooling	dB(A)	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	19 - 23 - 29 - 36 - 42	21 - 24 - 30 - 36 - 42	21 - 24 - 30 - 36 - 42				
	(SLo-Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	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				
	Sound Level (PWL)	Cooling	dB(A)	60	60	60	60	60	60	60	60		
	Dimensions	H*W*D	mm	-	-	550-800-285	550-800-285	550-800-285	550-800-285	550-800-285	714-800-285		
	Weight	lo r	kg	-	-	31	31	34	34	35	40		
	Air Volume	Cooling	m³/min	-	-	27.8	27.8	34.3	34.3	32.0	40.2		
Outdoor		Heating	m³/min	-	-	29.8	29.8	32.7	32.7	32.7	40.2		
Unit	Sound Level (SPL)	Cooling	dB(A)	-	-	47	47	49	49	50	52		
	0 11 100000	Heating	dB(A)	-	-	48	48	50	50	51	52		
	Sound Level (PWL)			-	-	58	58	62	62	62	65		
	Operating Current (Max)		=	-	6.8	6.8	6.8	6.8	9.6	13.6			
	Breaker Size Diameter	Liquid/Coo	A	=	-	10 6.35 / 9.52	10	10 6.35 / 9.52	10	12	16		
Ext.		Liquid/Gas Out-In	mm		-	6.35 / 9.52	6.35 / 9.52	20	6.35 / 9.52 20	6.35 / 9.52 20	6.35 / 9.52		
Piping	Max.Length Max.Height	Out-In	m m	=	-	12	12	12	12	12	15		
•		Cooling	°C	-	-	-10 ~ +46	-10 ~ +46	12 -10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46		
Guarante Range (O	ed Operating	Heating	°C	-	-	-10 ~ +46 -15 ~ +24	-10 ~ +46 -20 ~ +24	-10 ~ +46 -15 ~ +24	-10 ~ +46 -20 ~ +24	-10 ~ +46 -15 ~ +24	-10 ~ +46 -15 ~ +24		
nange (C	ataoorj	Heating		-	-	-10 ~ +24	-2U ~ +24	-15 ~ +24		-15 ~ +24	-10 ~ +24		

<sup>(\*1)</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or Gasssemble 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) SHE: Super High

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

(\*5) Please see page 57-58 for heating (warmer season) specifications.

# FTVGHZ SERIES

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



MSZ-FT25/35/50VG(K)

# Powerful Core for powerful heating

#### **Compact Design**

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

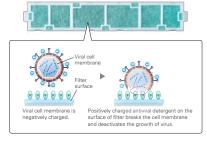


#### V Blocking Filter (Optional)



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.



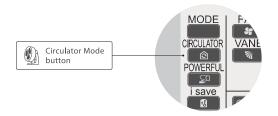
#### Remote Controller with Backlight

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.



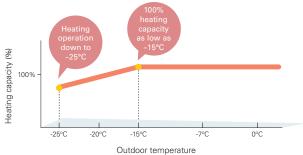
#### Built-in Wi-Fi

(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.

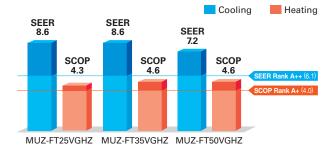
#### **Hyper Heating**

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



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

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



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



\*Image is for illustration purposes.

# MSZ-FT VGHZ SERIES



















MSZ-FT25/35/50VG(K)

#### **Outdoor Unit**





MUZ-FT35/50VGHZ

















































































<del>8 -н</del>	Night	Back Light Remote	Cleaning-free,	Flare connection	Self Diagnosis	Failure Recall	
Indoor							

					mronton moder amp				
Indoor Un	iit			MSZ-FT25VG(K)	MSZ-FT35VG(K)	MSZ-FT50VG(K)			
Outdoor U	Jnit	·		MUZ-FT25VGHZ	MUZ-FT35VGHZ	MUZ-FT50VGHZ			
Refrigerar	nt				R32 (*1)				
Power	Source				Outdoor power supply				
Supply	Outdoor (V/Phase/H	z)		230 / Single / 50					
Cooling	Design Load		kW	2.5 3.5 5.0					
	Annual Electricity Co	onsumption (*2)	kWh/a	101	142	243			
	SEER (*4)	• • • • • • • • • • • • • • • • • • • •		8.6 8.6		7.2			
		Energy Efficiency Class		A+++	Δ+++	A++			
	Capacity	Rated	kW	V 2.5	3.5	5.0			
	oupuoity	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	Design Load	nated	kW	3.2 (–10°C)	4.0 (–10°C)	5.0 (–10°C)			
(Average	Declared Capacity	at reference design tempera		3.2 (-10°C)	4.0 (–10°C)	5.0 (–10°C)			
Season)(+5)	Decialed Capacity	at bivalent temperature	kW	3.2 (-10°C)	4.0 (–10°C)	5.0 (–10°C)			
		-		3.2 (-10°C) 3.0 (-25°C)	4.0 (-10 C) 3.4 (-25°C)	3.6 (–25°C)			
	The state of the s								
	3 - 1			0.0 (–10°C) 973	0.0 (-10°C) 1216	0.0 (-10°C) 1625			
	SCOP (*4)	nsumption	kWh/a	4.6					
	SCOP	Energy Efficiency Class		4.6 A++	4.6 A++	4.3			
	Camarita.		1110/			A+			
	Capacity	Rated	kW	3.2	4.0	5.0			
	Transfer	Min - Max	kW	0.9 - 6.2	0.9 - 6.6	0.9 - 7.8			
0	Total Input Rated    Current (max)		kW	0.760	1.020	1.300			
		I= .	A	10.0	11.6	13.9			
Indoor Unit	Input	Rated	kW	0.039	0.04	0.047			
Oilit	Operating Current (n		A		0.4				
	Dimensions	H*W*D	mm	280 - 838 - 229					
	Weight		kg	10					
	Air Volume (SLo-Lo-Mid-Hi-SHi(*)	Cooling	m³/min	3.9 - 5.9 - 8.2 - 10.4 - 12.3	3.9 - 6.1 - 8.3 - 10.7 - 13.1	5.5 - 7.6 - 9.8 - 12.0 - 13.1			
	•	, meating	m³/min	3.9 - 6.3 - 9.0 - 12.0 - 13.2	3.9 - 6.9 - 10.2 - 13.5 - 14.7	5.5 - 8.4 - 11.4 - 14.4 - 15.5			
	Sound Level (SPL) (SLo-Lo-Mid-Hi-SHi (*)	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			
OIIIL	Weight		kg	34	40	40			
	Air Volume	Cooling	m³/min	30.4	40.2	40.2			
		Heating	m³/min	30.4	40.2	40.2			
	Sound Level (SPL)	Cooling	dB(A)	46	49	51			
		Heating	dB(A)	49	52	54			
	Sound Level (PWL)	und Level (PWL) Cooling		60	61	64			
	Operating Current (n	nax)	A	9.6	11.2	13.5			
	Breaker Size		A	12	12	16			
Ext.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52			
Piping	Max. Length	Out-In	m	20	30	30			
	Max. Height	Out-In	m	12	15	15			
	ed Operating Range	Cooling	°C	-10 ~ +46	−10 ~ +46	-10 ~ +46			
[Outdoor]		Heating	°C	-25 ~ +24	−25 ~ +24	−25 ~ +24			

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with ligher GWP, if leaked to the atmosphere. 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of 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".

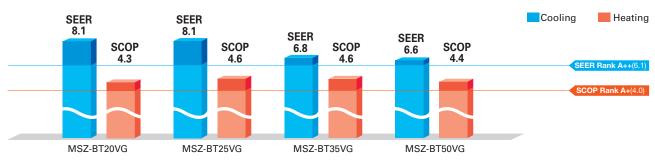
(\*5) Please see page 57-58 for heating (warmer season) specifications.



# High Energy Efficiency for Entire Range of Series



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 achieved 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.



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



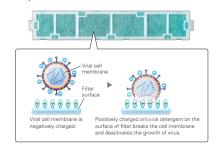
The indoor unit is equipped with a Wi-Fi Interface inside an exclusive pocket in the unit.

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

#### 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





















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







MUZ-BT25/35VG





Remote Controller

























































Cleaning-free, pipe reuse	Cleaning-free, pipe reuse
---------------------------	---------------------------









/pe					IIIVCITCI	neat Pump					
door Uni	it			MSZ-BT20VG(K)	MSZ-BT25VG(K)	MSZ-BT35VG(K)	MSZ-BT50VG(K)				
ıtdoor U	Init			MUZ-BT20VG	MUZ-BT25VG	MUZ-BT35VG	MUZ-BT50VG				
frigeran	t				R	32 <sup>(*1)</sup>					
	Source			Outdoor Power supply							
pply	Outdoor (V/Ph	ase / Hz )		230V/Single/50Hz							
	Design load		kW	2.0	2.5	3.5	5.0				
	Annual electricity	consumption (*2)	kWh/a	86	108	180	265				
	SEER (*4) Energy efficiency class			8.1	8.1	6.8	6.6				
oling				A++	A++	A++	A++				
[	Capacity	Rated	kW	2.0	2.5	3.5	5.0				
- 1	Сараспу	Min-Max	kW	0.5-2.9	0.5-3.0	0.9-3.5	1.3-5.0				
[	Total Input	Rated	kW	0.450	0.700	1.240	2.050				
	Design load	*	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)				
		at reference design temperature	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)				
	Declared Capacity	at bivalent temperature	kW	1.5 (-10°C)	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)				
	Оараспу	at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-15°C)	3.4 (-15°C)				
	Back up heating		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)				
erage	Annual electricity consumption (*2) kWh/a			487	577	727	1209				
son)(*5)	SCOP (*4)			4.3	4.6	4.6	4.4				
		Energy efficiency class		A <sup>+</sup>	A++	A++	A <sup>+</sup>				
		Rated	kW	2.5	3.15	3.6	5.4				
ľ	Capacity	Min-Max	kW	0.7-3.2	0.7-3.5	0.9-4.1	1.4-6.5				
	Total Input	Rated	kW	0.550	0.750	0.930	1.550				
erating	Current (Max)		А	5.6	7.0	7.0	10.0				
	Input	Rated	kW	0.024	0.024	0.031	0.037				
	Operating Curre	ent(Max)	Α	0.25	0.25	0.31	0.35				
	Dimensions	Dimensions H*W*D		280-838-235	280-838-235	280-838-235	280-838-235				
. 1	Weight	eight		9	9	9	9				
oor	Air Volume Cooling		kg m³/min	4.2 - 5.2 - 6.8 - 8.7 - 10.9	4.2 - 5.2 - 6.8 - 8.7 - 10.9	4.2 - 5.2 - 6.8 - 8.7 - 13.2	6.3 - 7.6 - 9.0 - 11.0 - 13.				
	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	m³/min	4.2 - 5.0 - 6.8 - 9.0 - 11.9	4.2 - 5.0 - 6.8 - 9.0 - 11.9	4.2 - 5.0 - 6.8 - 9.0 - 11.9	6.0 - 7.8 - 9.9 - 11.9 - 14.				
	Sound Level (SPL)	Cooling	dB(A)	19 - 22 - 30 - 37 - 43	19 - 22 - 30 - 37 - 43	19 - 22 - 31 - 38 - 46	29 - 33 - 36 - 40 - 46				
	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	20 - 23 - 30 - 37 - 43	20 - 23 - 30 - 37 - 43	20 - 23 - 30 - 37 - 44	29 - 33 - 38 - 43 - 48				
1	Sound Level (PWL)	Cooling	dB(A)	57	57	60	60				
	Dimensions	H*W*D	mm	538-699-249	538-699-249	538-699-249	550-800-285				
Ī	Weight		kg	23	24	24	35				
ı	4: 1/4 1	Cooling	m³/min	30.3	32.2	32.2	30.4				
	Air Volume	Heating	m³/min	30.3	32.2	34.6	32.7				
tdoor	0	Cooling	dB(A)	50	50	52	50				
•	Sound Level (SPL)	Heating	dB(A)	50	50	52	51				
1	Sound Level (PWL)	Cooling	dB(A)	63	63	64	64				
1	Operating Curre	ent (Max)	A	5.3	6.7	6.7	9.6				
	Breaker Size		А	10	10	10	12				
	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7				
t.	Max.Length	Out-In	m	20	20	20	20				
	Max.Height	Out-In	m	12	12	12	12				
	ed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46				
	utdoor) Heating		°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24				

<sup>(\*1)</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 682s 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) SH: Super High

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

(5) Please see page 57-58 for healting (warmer season) specifications.

**R32** 

# 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.

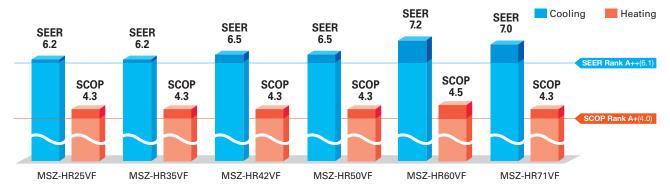


#### "Rank A++/A+" Energy Savings Achieved for Entire Range of Series





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.

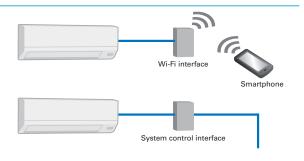
#### **System Control Interface (Optional)**

- •Remote on/off operation is possible by input to the connector.
- •Depending on the interface used, connecting a wired remotecontrol 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.

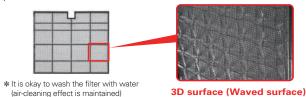


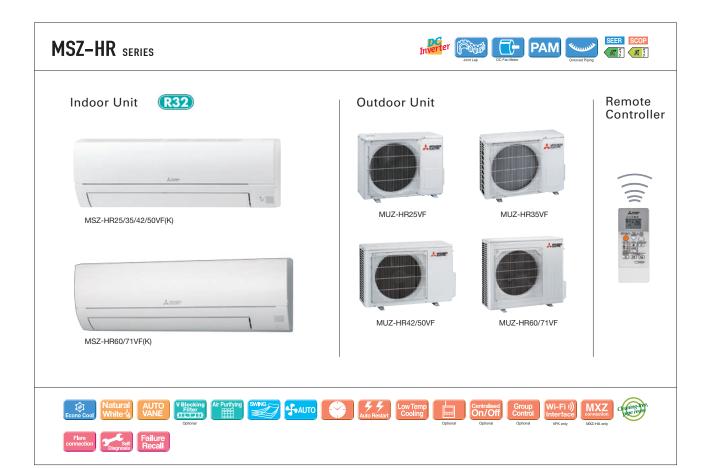


#### Air Purifying Filter



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.





Туре						Inverter H	leat Pump					
Indoor U	nit			MSZ-HR25VF(K)	MSZ-HR35VF(K)	MSZ-HR42VF(K)	MSZ-HR50VF(K)	MSZ-HR60VF(K)	MSZ-HR71VF(K)			
Outdoor	Unit			MUZ-HR25VF	MUZ-HR35VF	MUZ-HR42VF	MUZ-HR50VF	MUZ-HR60VF	MUZ-HR71VF			
Refrigera	nt					R3	2(*1)	Į.				
Power	Source			Outdoor Power supply								
Supply	Outdoor (V / Ph	ase / Hz )		230V/Single/50Hz								
	Design load kW			2.5	3.4	4.2	5.0	6.1	7.1			
	Annual electricity consumption (*2)		kWh/a	141	191	226	269	296	355			
	SEER (*4)			6.2	6.2	6.5	6.5	7.2	7.0			
Cooling		Energy efficiency class	,	A++	A++	A++	A++	A++	A++			
_		Rated	kW	2.5	3.4	4.2	5.0	6.1	7.1			
	Capacity	Min-Max	kW	0.5-2.9	0.9-3.4	1.1-4.6	1.3-5.0	1.7-7.1	1.8-7.3			
	Total Input	Rated	kW	0.800	1.210	1.340	2.050	1.810	2.330			
	Design load		kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
		at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
	Declared Capacity	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
	Сараспу	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)			
Heating	Back up heating	Back up heating capacity kV		0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)			
(Average	Annual electricity	consumption (*2)	kWh/a	614	781	928	1224	1430	1755			
Season)(*5)	SCOP (*4)			4.3	4.3	4.3	4.3	4.5	4.3			
	Energy efficiency cl		,	A <sup>+</sup>	A+	A+	A+	A+	A+			
	0	Rated	kW	3.15	3.6	4.7	5.4	6.8	8.1			
	Capacity	Min-Max	kW	0.7-3.5	0.9-3.7	0.9-5.4	1.4-6.5	1.5-8.5	1.5-9.0			
	Total Input	Rated	kW	0.850	0.975	1.300	1.550	1.810	2.440			
Operatin	g Current (Max)		Α	5.0	6.7	8.5	10.0	14.1	14.1			
	Input	Rated	kW	0.020	0.028	0.032	0.039	0.055	0.055			
	Operating Current(Max)		А	0.2	0.27	0.3	0.36	0.5	0.5			
	Dimensions	H*W*D	mm	280-838-228	280-838-228	280-838-228	280-838-228	305-923-262	305-923-262			
	Weight		kg	8.5	8.5	9	9	12.5	12.5			
Indoor Unit	Air Volume	Cooling	m³/min	3.6 - 5.4 - 7.2 - 9.7	3.6 - 5.6 - 7.8 - 11.7	6.0 - 8.7 - 10.8 - 13.1	6.4 - 9.2 - 11.2 - 13.1	10.4 - 12.6 - 15.4 - 19.6	10.4 - 12.6 - 15.4 - 19.6			
Oilit	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	m³/min	3.3 - 5.4 - 7.4 - 10.1	3.3 - 5.4 - 7.4 - 10.5	5.6 - 7.9 - 10.8 - 13.4	6.1 - 8.3 - 11.2 - 14.5	10.7 - 13.1 - 16.7 - 19.6	10.7 - 13.1 - 16.7 - 19.6			
	Sound Level (SPL)	Cooling	dB(A)	21 - 30 - 37 - 43	22 - 31 - 38 - 46	24 - 34 - 39 - 45	28 - 36 - 40 - 45	33 - 38 - 44 - 50	33 - 38 - 44 - 50			
	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	21 - 30 - 37 - 43	21 - 30 - 37 - 44	24 - 32 - 40 - 46	27 - 34 - 41 - 47	33 - 38 - 44 - 50	33 - 38 - 44 - 50			
	Sound Level (PWL)	Cooling	dB(A)	57	60	60	60	65	65			
	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285	550-800-285	714-800-285	714-800-285			
	Weight		kg	23	22	32.5	34	40	40			
	Air Volume	Cooling	m³/min	30.3	32.2	30.4	30.4	42.8	42.8			
Outdoor	All Volume	Heating	m³/min	30.3	32.2	32.7	32.7	48.3	48.3			
Outaoor Unit	Sound Level (SPL)	Cooling	dB(A)	50	51	50	50	53	53			
	Southu Level (SPL)	Heating	dB(A)	50	51	51	51	57	57			
	Sound Level (PWL)	Cooling	dB(A)	63	64	64	64	65	66			
	Operating Curre	nt (Max)	А	4.8	6.4	8.2	9.6	13.6	13.6			
	Breaker Size	Breaker Size A		10	10	10	12	16	16			
F4	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7			
Ext. Piping	Max.Length	Out-In	m	20	20	20	20	30	30			
· ·piiig	Max.Height	Out-In	m	12	12	12	12	15	15			
	eed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46			
Range (C	Outdoor)	Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24			

<sup>(\*1)</sup> 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 with would be leaked to the atmosphere, the impact on global warming would be 675 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 6482 is 675 in the IPCC 4th Assessment Report.

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

(\*3) SHE: Super High

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

(\*5) Please see page 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.



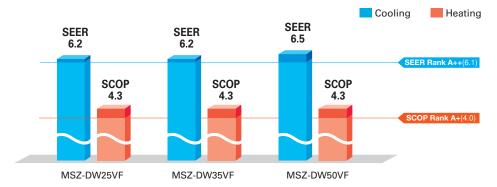
# Invert





#### **Energy Saving**

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.



#### Air Purifying Filter



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



#### Simple Control

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



#### Wi-Fi and System Control

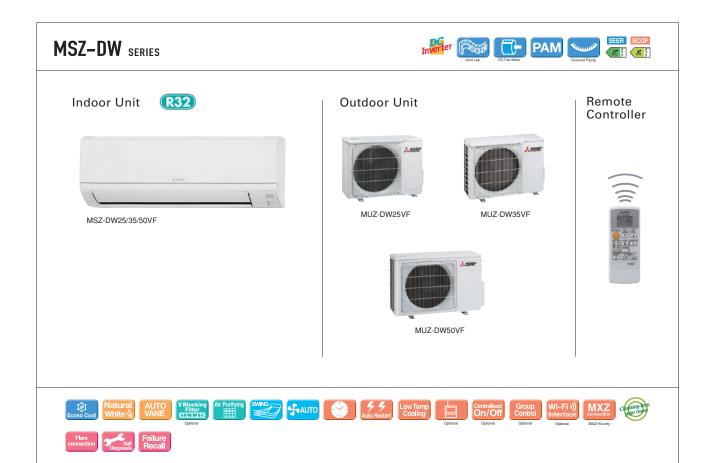
#### Wi-Fi Interface (Optional)

Optional interface and a Cloud-based solution "MELCloud" enable users to control air conditioners and check operating status via devices such as laptops, tablets and smartphones.

#### System Control Interface (Optional)

- Remote on/off operation is possible by input to the connector.
- Depending on the interface used, connecting a wired remote control such as the PAR-41MAA is possible.
- Centralised control is possible when connected to M-NET.





Туре					Inverter Heat Pump	
Indoor Ur	nit			MSZ-DW25VF	MSZ-DW35VF	MSZ-DW50VF
Outdoor	Unit			MUZ-DW25VF	MUZ-DW35VF	MUZ-DW50VF
Refrigera	nt				R32 <sup>(*1)</sup>	
Power	Source				Outdoor Power supply	
Supply	Outdoor (V / Ph	ase / Hz )			230V/Single/50Hz	
	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
Cooling		Energy efficiency class		A++	A++	A++
	Capacity	Rated	kW	2.5	3.4	5.0
	Сараспу	Min-Max	kW	0.5-2.9	0.9-3.4	1.3-5.0
	Total Input	Rated	kW	0.800	1.210	2.050
	Design load		kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
		at reference design temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Declared Capacity	at bivalent temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
	Jupacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)
Heating	Back up heating capacity kV			0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)
(Average	Annual electricity	consumption (*2)	kWh/a	618	781	1174
Season)(*5)	SCOP (*4)			4.3	4.3	4.3
		Energy efficiency class		A+	A+	A+
	Capacity	Rated	kW	3.15	3.6	5.4
	Сараспу	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
Operatin	g Current (Max)		Α	5.0	6.7	10.0
	Input	Rated	kW	0.023	0.028	0.029
	Operating Current(Max)		А	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
Indoor Unit	Air Volume	Cooling	m³/min	3.6 - 5.6 - 7.5 - 9.9	3.6 - 5.8 - 8.1 - 11.3	5.9 - 7.7 - 9.7 - 12.3
Oille	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	m³/min	3.4 - 5.6 - 7.7 - 10.3	3.4 - 5.6 - 7.7 - 10.7	6.0 - 7.7 - 9.7 - 12.6
	Sound Level (SPL)	Cooling	dB(A)	21 - 30 - 37 - 43	22 - 31 - 38 - 46	28 - 36 - 40 - 45
	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	21 - 30 - 37 - 43	21 - 30 - 37 - 44	27 - 34 - 41 - 47
	Sound Level (PWL)	Cooling	dB(A)	57	60	60
	Dimensions	H*W*D	mm	538-699-249	538-699-249	550-800-285
	Weight		kg	23	24	35
	Air Volume	Cooling	m³/min	30.3	32.2	33.5
Outdoor	All Volume	Heating	m³/min	30.3	32.2	32.7
Unit	Sound Level (SPL)	Cooling	dB(A)	50	51	50
	` ,	Heating	dB(A)	50	51	51
	Sound Level (PWL)		dB(A)	63	64	64
	Operating Curre	nt (Max)	А	5.3	7.0	9.2
	Breaker Size	Breaker Size A		10	10	12
Ext.	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 9.52
Piping	Max.Length	Out-In	m	20	20	20
pg	Max.Height	Out-In	m	12	12	12
	eed Operating	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46
Range (C	Outdoor)	Heating	*C	-10 ~ +24	-10 ~ +24	-10 ~ +24

<sup>(\*1)</sup> Refigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or 682s 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) SH: Super High

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

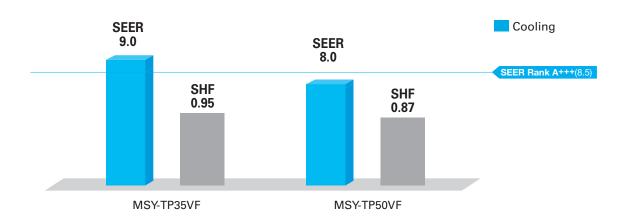
(\*5) Please see page 57-58 for heating (warmer season) specifications.





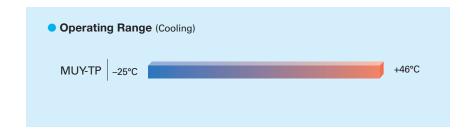
Cooling only model with high-perfomance provides high SHF in various environments thanks to wide operation range.

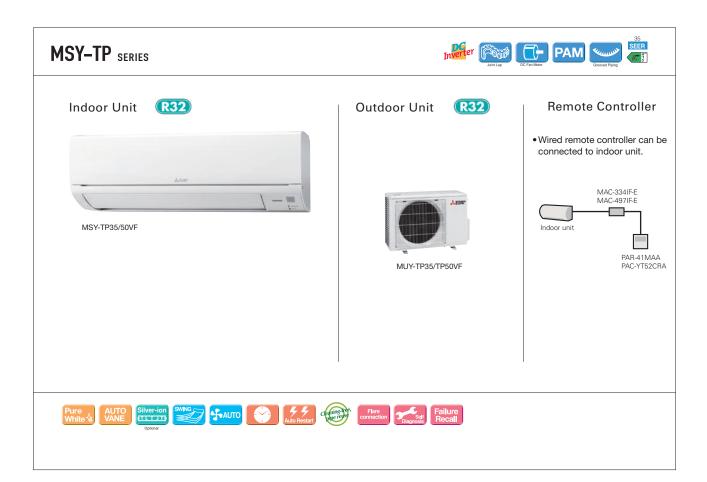
#### High Energy-Saving Performance with High SHF



#### 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.





Туре				Inverter l	Heat Pump					
Indoor Ur	nit			MSY-TP35VF	MSY-TP50VF					
Outdoor	Unit			MUY-TP35VF	MUY-TP50VF					
Refrigera	nt			R32 <sup>(1)</sup>						
Power	Source			Indoor Power supply						
Supply	Outdoor (V / Ph	ase / Hz )		230V / Single / 50Hz						
	Design load		kW	3.5	5.0					
	Annual electricity consumption (*2)		kWh/a	136	218					
	SEER (*4)			9.0	8.0					
Cooling		Energy efficiency class		A <sup>+++</sup>	A++					
	0	Rated	kW	3.5	5.0					
	Capacity	Min-Max	kW	1.5 - 4.0	1.5 - 5.7					
	Total Input	Rated	kW	0.760	1.450					
	Design load		kW	=	-					
		at reference design temperature	kW	=	-					
	Declared Capacity	at bivalent temperature	kW	=	-					
		at operation limit temperature	kW	=	-					
Heating	Back up heating		kW	=	-					
(Average	Annual electricity	consumption (*2)	kWh/a	-	-					
Season)(*5)	SCOP (*4)			-	-					
		Energy efficiency class		-	=					
	Conneity	Rated	kW	-	-					
	Capacity	Min-Max	kW	=	-					
	Total Input	Rated	kW	=	-					
Operatin	g Current (Max)		А	9.6	9.6					
	Input	Rated	kW	0.033	0.034					
	Operating Current (Max)		А	0.4	0.4					
	Dimensions	mensions H*W*D		305-923-250	305-923-250					
	Weight		kg	12.5	12.5					
Indoor	Air Volume	Cooling	m³/min	10.1 - 11.6 - 13.7 - 16.4	10.1 - 11.6 - 13.7 - 16.4					
Unit	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	m³/min	-	-					
	Sound Level (SPL)	Cooling	dB(A)	31 - 36 - 40 - 45	31 - 36 - 40 - 45					
	(Lo-Mid-Hi-SHi <sup>(*3)</sup> )	Heating	dB(A)	-	-					
	Sound Level (PWL)	Cooling	dB(A)	60	60					
	Breaker Size		А	10	10					
	Dimensions	H*W*D	mm	550-800-285	550-800-285					
	Weight		kg	34	34					
	Air Volume	Cooling	m³/min	29.3	29.3					
Outdoor	All Volume	Heating	m³/min	-	-					
Unit	Sound Level (SPL)	Cooling	dB(A)	45	47					
	` ,	Heating	dB(A)	-	-					
	Sound Level (PWL)	Sound Level (PWL) Cooling C		58	61					
	Operating Curre		А	9.2	9.2					
Ext.	Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52					
Piping	Max.Length	Out-In	m	20	20					
9	Max.Height	Out-In	m	12	12					
Guarante	eed Operating	Cooling	°C	-25 ~ +46	-25 ~ +46					
Range (Outdoor)		Heating	°C	-	_					

<sup>(\*1)</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

The GWP or RS2 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) SH: Super High

(\*4) SEER and other related description are based on COMMISSION DELEGATED REGULATION (EU) No.626/2011.



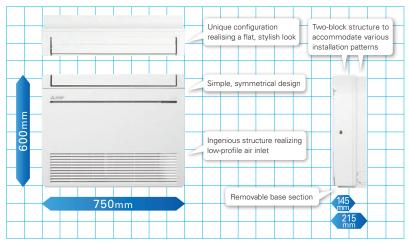


High Capacity, Energy Savings and a Design in Harmony with Living Spaces Raise the Value of Your Room to the Next Level.



#### Simple, Flat Design

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





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

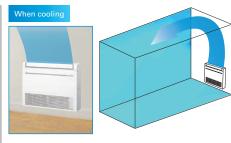
New models have been introduced to expand the line-up. The diverse selection enables the best solution for both customers and locations.

Capacity	2.5kW	3.5kW	5.0kW	6.0kW							
MFZ-KJ	MFZ-KJ ✓		✓								
<b>+</b>											
MFZ-KT	✓	✓	✓	✓							

#### Multi-flow Vane

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





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

#### Weekly Timer (Introduced in Response to Market Demand)

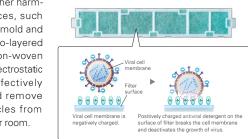
Temperature settings and On/Off control can be managed over a period of one week using the Weekly Timer. Up to eight setting patterns per calendar day are possible.

#### **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.

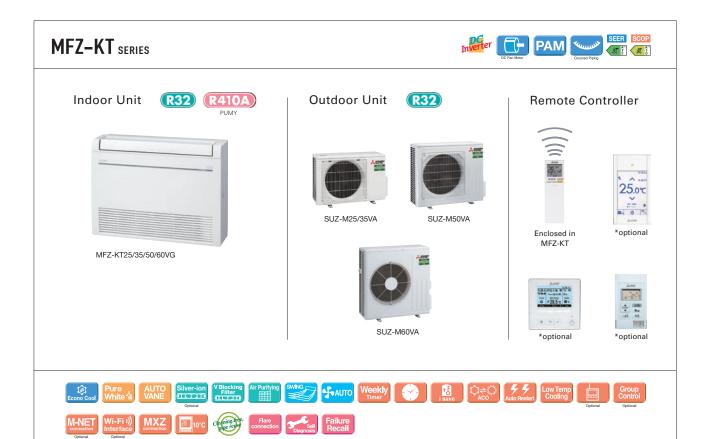


#### **Quiet Operation**

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

\*Single connection only.





Туре					Inverter Heat Pump						
Indoor Ur	it			MFZ-KT25VG	MFZ-KT35VG	MFZ-KT50VG	MFZ-KT60VG				
Outdoor l	Jnit			SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA				
Refrigera	nt				R32	2(*1)					
Power	Source			Outdoor power supply							
Supply	Outdoor(V/Phase/Hz)				230 / Sir	ngle / 50					
	Design load		kW	2.5	3.5	5.0	6.1				
	Annual electricity consump	ption (*2)	kWh/a	134	185	257	343				
	SEER (*4), (*5)			6.5	6.6	6.8	6.2				
Cooling		Energy efficiency class		A++	A++	A++	A++				
	Capacity	Rated	kW	2.5	3.5	5.0	6.1				
		Min-Max	kW	1.6 - 3.2	0.9 - 3.9	1.2 - 5.6	1.7 - 6.3				
	Total Input	Rated	kW	0.62	1.06	1.55	1.84				
	Design load		kW	2.2	2.6	4.3	4.6				
	Declared Capacity	at reference design temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.5 (-10°C)	4.1 (-10°C)				
		at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.9 (-7°C)	4.1 (-7°C)				
		at operation limit temperature	kW	2.0 (-10°C)	2.3 (-10°C)	3.5 (-10°C)	4.1 (-10°C)				
Heating	Back up heating capacity		kW	0.2	0.3	0.8	0.5				
(Average	Annual electricity consump	ption <sup>(*2)</sup>	kWh/a	732	825	1423	1568				
Season)	SCOP (*4), (*5)			4.2	4.4	4.2	4.1				
		Energy efficiency class		A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>				
	Capacity	Rated	kW	3.4	4.3	6.0	7.0				
		Min-Max	kW	1.3 - 4.2	1.1 - 5.0	1.5 - 7.2	1.6 - 8.0				
	Total Input	Rated	kW	0.91	1.26	1.86	2.18				
Operatin	g Current (Max)		Α	7.0	8.7	14.0	15.4				
	Input Rated		kW	0.020 / 0.024	0.020 / 0.024	0.037 / 0.052	0.063 / 0.059				
	Operating Current(Max)		Α	0.20	0.20	0.45	0.55				
	Dimensions	H*W*D	mm	600-750-215	600-750-215	600-750-215	600-750-215				
Indoor	Weight	T-	kg	14.5	14.5	14.5	15.0				
Unit	Air Volume	Cooling	m³/min	3.9 - 4.8 - 6.5 - 7.8 - 8.9	3.9 - 4.8 - 6.5 - 7.8 - 8.9	5.6 - 6.7 - 8.6 - 10.4 - 12.3	5.6 - 8.0 - 9.6 - 12.3 - 15.0				
	(SLo-Lo-Mid-Hi-SHi (*3))	Heating	m³/min	3.5 - 4.0 - 5.6 - 7.3 - 9.7	3.5 - 4.0 - 5.6 - 7.3 - 9.7	6.0 - 7.7 - 9.4 - 11.6 - 14.0	6.0 - 7.7 - 9.7 - 12.5 - 14.6				
	Sound Level (SPL)	Cooling	dB(A)	19 - 24 - 31 - 37 - 41	19 - 24 - 31 - 37 - 41	28 - 32 - 37 - 42 - 48	28 - 36 - 40 - 46 - 53				
	(SLo-Lo-Mid-Hi-SHi (*3))	Heating	dB(A)	19 - 23 - 30 - 37 - 44	19 - 23 - 30 - 37 - 44	29 - 35 - 40 - 44 - 49	29 - 35 - 41 - 47 - 51				
	Sound Level (PWL)	Cooling	dB(A)	54	54	60	65				
	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	880-840-300				
	Weight	In the second	kg	30	35	41	54				
	Air Volume	Cooling	m³/min	36.3	34.3	45.8	50.1				
Outdoor	0	Heating	m³/min	34.6	32.7	43.7	50.1				
Unit	Sound Level (SPL)	Cooling	dB(A)	45	48	48	49				
	Council (DMI)	Heating	dB(A)	46	48	49	51				
	Sound Level (PWL)	Cooling	dB(A)	59	59	64	65				
	Operating Current(Max) Breaker Size		A	7	9	14	15				
		1:::4/0	А	10	10	20	20				
Ext.	Diameter	Liquid/Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 15.88				
Piping	Max.Length Max.Height	Out-In	m	20	20	30	30				
		Out-In	m °C	12	12	30	30				
[Outdoor]	ed Operating Range	Cooling	_	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46				
[Outdoor]		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24				

<sup>(\*1)</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to globa 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disayes ask a professional.

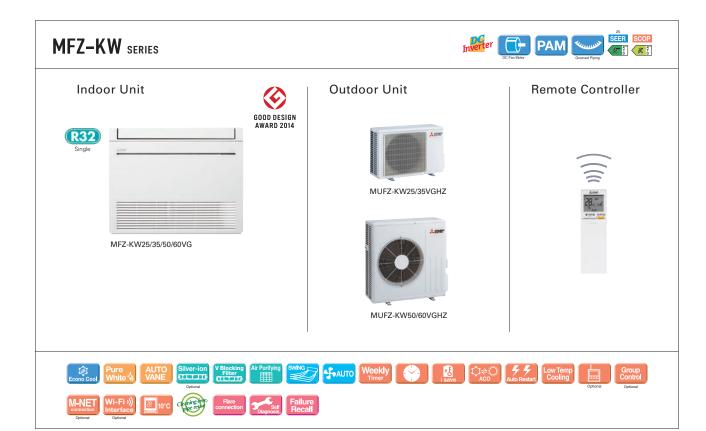
The GWP of R32 is 675 in the IPCC 4th Assessment Report.

(\*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) SHz Super High

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

(\*5) SEER and SCOP are based on 2009/125/EC; Energy-related Products Directive and Regulation (EU) No.206/2012.



Туре					Inverter H	eat Pump			
Indoor Un	it			MFZ-KW25VG	MFZ-KW35VG	MFZ-KW50VG	MFZ-KW60VG		
Outdoor l	Jnit			MUFZ-KW25VGHZ	MUFZ-KW35VGHZ	MUFZ-KW50VGHZ	MUFZ-KW60VGHZ		
Refrigerar	nt				R32 (*1)				
Power	Source			Outdoor power supply					
Supply	Outdoor (V/Phase/H	z)		230 / Single / 50					
Cooling	Design Load		kW	2.5	3.5	5.0	6.1		
	Annual Electricity Co	onsumption (*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	Design Load	•	kW	3.5	3.6	4.5	4.8		
(Average	Declared Capacity	at reference design temperature	kW	3.5 (-10°C)	3.6 (-10°C)	4.5 (-10°C)	4.8 (-10°C)		
Season)	,	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 Cap		kW	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)	0.0 (-10°C)		
	Annual Electricity Co	onsumption (*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		
			kW	0.2 - 5.1	0.2 - 6.0	1.2 - 8.4	1.2 - 9.0		
	Total Input	Rated	kW	0.83	1.21	1.60	1.88		
Operating	g Current (max)	•	А	9.9	10.3	15.3	15.4		
Indoor	Input (Cooling/Heati	ing) Rated	kW	0.019/0.025	0.019/0.025	0.026/0.052	0.063/0.059		
Unit	Operating Current (n	nax)	А	0.22	0.22	0.47	0.55		
	Dimensions	H*W*D	mm	600 - 750 - 215					
	Weight	'	kg	15	15	15	15		
	Air Volume	Cooling	m³/min	3.9 - 4.9 - 5.9 - 7.1 - 8.2	3.9 - 4.9 - 5.9 - 7.1 - 8.2	5.6 - 6.7 - 8.0 - 9.3 - 10.6	5.6 - 8.0 - 9.6 - 12.3 - 15.0		
	(SLo-Lo-Mid-Hi-SHi (*	Heating	m³/min	3.5 - 5.1 - 6.2 - 7.7 - 9.7	3.5 - 5.1 - 6.2 - 7.7 - 9.7	6.0 - 7.4 - 9.4 - 11.6 - 14.0	6.0 - 7.7 - 9.7 - 12.5 - 14.6		
	Sound Level (SPL)	Cooling	dB(A)	20 - 25 - 30 - 35 - 39	20 - 25 - 30 - 35 - 39	27 - 31 - 35 - 39 - 44	27 - 35 - 39 - 46 - 53		
	(SLo-Lo-Mid-Hi-SHi (*	Heating	dB(A)	18 - 25 - 30 - 35 - 41	18 - 25 - 30 - 35 - 41	29 - 35 - 40 - 45 - 50	29 - 35 - 41 - 47 - 51		
	Sound Level (PWL)		dB(A)	49	50	56	65		
	Dimensions	H*W*D	mm	550 - 8	00 - 285	880 - 8	40 - 330		
Unit	Weight		kg	35	35	54	54		
	Air Volume	Cooling	m³/min	32.7	32.7	43.8	48.8		
		Heating	m³/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 (n	nax)	А	9.6	10.0	14.8	14.8		
	Breaker Size		А	10	12	16	16		
Ext.	Diameter	Liquid / Gas	mm	6.35 / 9.52	6.35 / 9.52	6.35 / 12.7	6.35 / 12.7		
Piping	Max. Length	Out-In	m	20	20	30	30		
	Max. Height	Out-In	m	12	12	15	15		
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46		
[Outdoor]		Heating	°C	-25 ~ +24	-25 ~ +24	-25 ~ +24	-25 ~ +24		

<sup>(\*1)</sup> 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 CQ2, over a peniod 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 f82 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.

#### Slim Design KY KP





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



# Ceiling Mounted KY KP





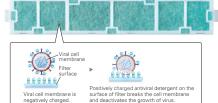
Installing the ceiling-mounted MLZ Series unit in a room creates a more spacious feel that enhances room comfort This overhead format is also an excellent solution when lighting equipment is installed at the centre of the room and fixtures such as book shelves are mounted on wall surfaces.



# V Blocking Filter W



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

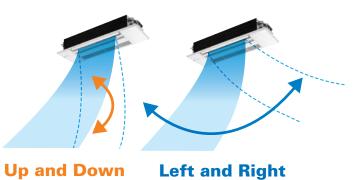
#### Auto Vane Control KY KP

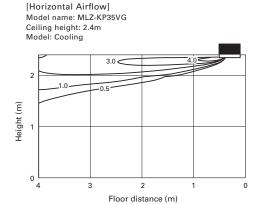


Outlet vanes can be moved left and right, and up and down using the remote controller. This improved airflow control feature solves the problem of drafts.

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 KY KP





**Up and Down** 

\*Only available when Econo Cool is set.

# 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)

	Mor	۱.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.	
6:00	ON 2	:0°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	
				Automatically change	s to high-power opera	tion at wake-up time			
8:00									
10:00	OFF								
12:00			OFF	OFF	OFF	OFF	ON 18°C	ON 18°C	
14:00			Automatic		Midday is warmer, so the temperature is set lower				
(P:00									
18:00	ON 2	2°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	
50:00			Automatically turn	tomatically turns on, synchronized with arrival at home				Automatically raises temperature setting to match time when outside-air temperature is low	
55:00									
(during sleeping hours)	ON 1	8°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 10°C	ON 10°C	
			Automa	tically lowers tempera	cally lowers temperature at bedtime for energy-saving operation				

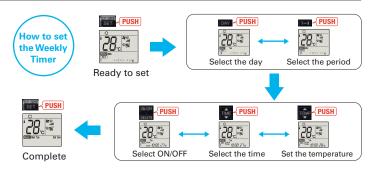
**Settings** 

Pattern Settings: Input up to four settings for each day

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

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





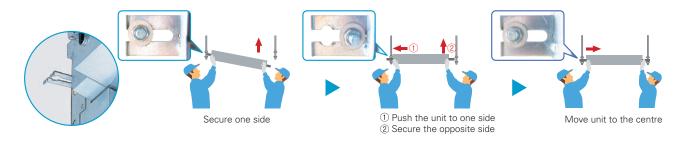
- · Start by pushing the "SET" button and follow the instructions to set the desired patterns. Once all of the desired patterns are input, point the top end of the remote controller at the indoor unit and push the "SET" button one more time. (Push the "SET" button only after inputting all of the desired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

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

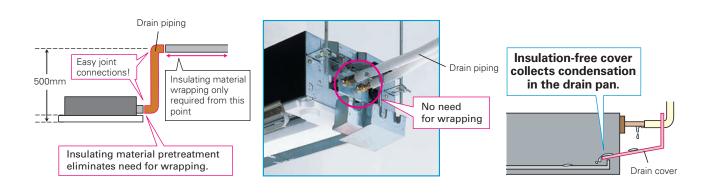
# Easy Installation

# Temporary Hanging Hook KY KP

Work efficiency has improved during installation.



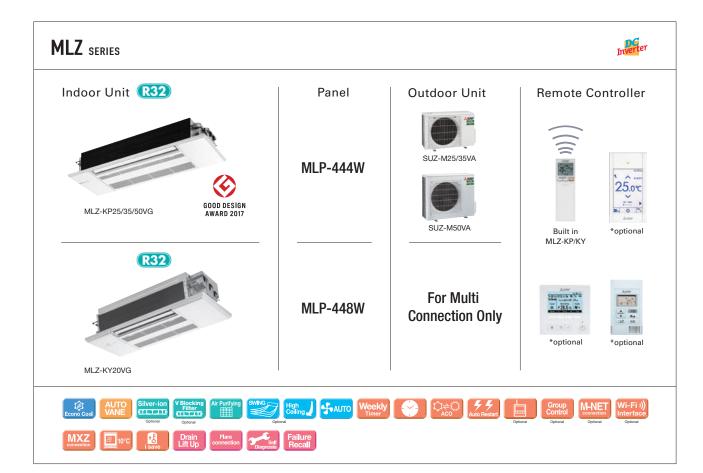
# Refrigerant Piping Supporters + Drain Cover KY KP



# 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.





Гуре						r Heat Pump	
ndoor Uni	it			MLZ-KY20VG	MLZ-KP25VG	MLZ-KP35VG	MLZ-KP50VG
utdoor U	Init			For Multi connection only	SUZ-M25VA	SUZ-M35VA	SUZ-M50VA
efrigeran	t					R32 <sup>(*1)</sup>	
ower	Source				Outdoor	Power supply	
upply	Outdoor (V/Ph	ase / Hz )			230 /	Single / 50	
	Design load		kW	-	2.5	3.5	5.0
	Annual electricity	consumption (*2)	kWh/a	-	141	175	260
	SEER (*4), (*5)			-	6.2	7.0	6.7
Cooling		Energy efficiency class		-	A++	A++	A++
_		Rated	kW	-	2.5	3.5	5.0
	Capacity	Min-Max	kW	-	1.4 - 3.2	0.8 - 3.9	1.7 - 5.6
	Total Input	Rated	kW	-	0.59	0.94	1.38
	Design load		kW	_	2.2	2.6	4.3
		at reference design temperature	kW	-	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)
	Declared	at bivalent temperature	kW	-	2.0 (-7°C)	2.3 (-7°C)	3.8 (-7°C)
	Capacity	at operation limit temperature	kW	_	2.0 (-10°C)	2.3 (-10°C)	3.8 (-10°C)
eating	Back up heating		kW	_	0.2	0.3	0.5
verage	Annual electricity		kWh/a	_	697	791	1397
eason)	SCOP (*4), (*5)			_	4.4	4.6	4.3
		Energy efficiency class		_	A+	A++	A+
		Rated	kW	_	3.2	4.1	6.0
	Capacity	Min-Max	kW	_	1.4 - 4.2	1.1 - 4.9	1.7 - 7.2
	Total Input	Rated	kW	_	0.80	1.10	1.86
neratino	Current (Max)	riatod	A	_	7.2	8.9	13.9
perating	Input	Rated	kW	0.012	0.04	0.04	0.04
	Operating Curre		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	III W D	kg	14	15.5	15.5	15.5
ndoor	Air Volume Cooling		m³/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
nit	(SLo-Lo-Mid-Hi <sup>(*3)</sup> )	Heating	m³/min	4.3-4.9-5.5-6.0	6.0-7.0-8.2-9.2	6.0-7.7-8.8-9.9	6.0-8.8-10.3-11.8
		Cooling	dB(A)	30-32-34-37	27-31-34-38	27-32-36-40	29-36-41-47
	Sound Level (SPL) (SLo-Lo-Mid-Hi <sup>(*3)</sup> )	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
	Dimensions	H*W*D	mm m	34-915-370	24-1200-424	24-1200-424	24-1200-424
anel	Weight	11177 0	kg	3.8	3.5	3.5	3.5
	Dimensions	H*W*D	mm	-	550-800-285	550-800-285	714-800-285
	Weight	11110	kg		30	35	41
		Cooling	m³/min		36.3	34.3	45.8
	Air Volume	Heating	m³/min	_	34.6	32.7	43.7
utdoor		Cooling	dB(A)		34.0 45	48	43.7
nit	Sound Level (SPL)	Heating	dB(A)		46	48	49
	Sound Level (PWL)	Cooling	dB(A)	_	59	59	64
	Operating Curre		A A		6.8	8.5	13.5
	Breaker Size	ant (widk)	A		10	10	20
	Diameter	1::-/0			6.35/9.52	6,35/9,52	
xt.		Liquid/Gas	mm	6.35/9.52			6.35/12.7
Piping	Max.Length	Out-In	m	-	20	20	30
	Max.Height	Out-In	m	-	12	12	30
	ed Operating	Cooling	°C	-	-10~+46	-10~+46	-15~+46
Range (O	utaoor)	Heating	℃	-	-10~+24	-10~+24	-10~+24

<sup>(\*1)</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of 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) Elic guper High

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

# **Specification on Warmer/Colder Condition**

Туре					Inverter Heat Pump	
Indoor Ur	nit			MSZ-RW25VG	MSZ-RW35VG	MSZ-RW50VG
Outdoor I	Unit			MUZ-RW25VGHZ	MUZ-RW35VGHZ	MUZ-RW50VGHZ
Refrigera	nt				R32 (*1)	
	Design load		kW	2.5	3.5	5.0
Cooling	Annual electricity	consumption (*2)	kWh/a	78	130	230
	SEER			11.2	9.4	7.6
		Energy efficiency class		A+++	A+++	A++
	Design load		kW	1.8	2.2	3.3
	Declared	at reference design temperature	kW	1.8	2.2	3.3
	Capacity	at bivalent temperature	kW	1.8	2.2	3.3
Heating (Warmer	Capacity	at operation limit temperature	kW	2.6	2.6	4.0
Season)	Back up heating capacity k			0.0	0.0	0.0
,	Annual electricity	consumption (*2)	kWh/a	372	469	715
	SCOP			6.7	6.5	6.4
	Energy efficiency class			A+++	A+++	A+++
	Design load		kW	4.7	5.9	8.8
		at reference design temperature	kW	3.7	4.0	5.6
	Declared Capacity	at bivalent temperature	kW	3.2	4.0	6.0
Heating (Colder Season)	Cupacity	at operation limit temperature	kW	2.6	2.6	4.0
	Back up heating	capacity	kW	1.0	1.9	3.2
0003011)	Annual electricity	consumption (*2)	kWh/a	2407	3083	5157
	SCOP			4.1	4.0	3.5
		Energy efficiency class		A <sup>+</sup>	A <sup>+</sup>	A

_										
Туре							Inverter Heat Pump			
Indoor Ur	nit				V25VG2	MSZ-LI	V35VG2	MSZ-LI	N50VG2	MSZ-LN60VG2
Outdoor	Jnit			MUZ-LN25VG2	MUZ-LN25VGHZ2	MUZ-LN35VG2	MUZ-LN35VGHZ2	MUZ-LN50VG2	MUZ-LN50VGHZ	MUZ-LN60VG
Refrigera	nt						R32 (*1)			
	Design load		kW	2.5	2.5	3.5	3.5	5	5.0	6.1
Cooling	Annual electricity	consumption (*2)	kWh/a	83	83	129	130	205	230	285
0009	SEER			10.5	10.5	9.5	9.4	8.5	7.6	7.5
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A++	A <sup>++</sup>
	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	at reference design temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)	3.3 (2°C)
Heating (Warmer	Capacity	at bivalent temperature	kW	1.7 (2°C)	1.8 (2°C)	2.0 (2°C)	2.2 (2°C)	2.5 (2°C)	3.3 (2°C)	3.3 (2°C)
	Capacity	at operation limit temperature	kW	2.5 (-15°C)	2.3 (-25°C)	3.2 (-15°C)	3.1 (-25°C)	4.2 (-15°C)	4.7 (-25°C)	6.0 (-15°C)
Season)	Back up heating 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	Annual electricity consumption (*2) kWh/a			382	431	467	602	779	779
	SCOP			6.4	6.6	6.5	6.5	5.8	5.9	5.9
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++	A+++
	Design load		kW	-	4.7 (-22°C)	-	5.9 (-22°C)	-	8.8 (-22°C)	_
		at reference design temperature	kW	-	2.6 (-22°C)	-	3.4 (-22°C)	-	5.1 (-22°C)	_
	Declared Capacity	at bivalent temperature	kW	-	3.2 (-10°C)	-	4.0 (-10°C)	-	6.0 (-10°C)	_
Heating (Colder	Capacity	at operation limit temperature	kW	-	2.3 (-25°C)	-	3.1 (-25°C)	-	4.7 (-25°C)	_
Season)	Back up heating		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 <sup>+</sup>	_	A <sup>+</sup>	_	A	_

Туре					Inverter Heat Pump	
Indoor Ur	nit			MSZ-FT25VG	MSZ-FT35VG	MSZ-FT50VG
Outdoor	Unit			MUZ-FT25VGHZ	MUZ-FT35VGHZ	MUZ-FT50VGHZ
Refrigera	nt				R32 (*1)	
	Design load		kW	2.5	3.5	5.0
Cooling	Annual electricity consumption (*2)		kWh/a	101	142	243
0009	SEER			8.6	8.6	7.2
		Energy efficiency class		A+++	A+++	A++
	Design load		kW	1.8 (2°C)	2.2 (2°C)	2.7 (2°C)
	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)
Heating (Warmer	Capacity	at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)
Season)	Back up heating capacity		kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)
,	Annual electricity consumption (*2) SCOP		kWh/a	432	527	684
				5.8	5.8	5.5
		Energy efficiency class		A+++	A+++	A+++
	Design load		kW	4.7 (-22°C)	5.9 (-22°C)	7.4 (-22°C)
	Declared	at reference design temperature	kW	3.1 (-22°C)	3.7 (-22°C)	4.0 (-22°C)
	Capacity	at bivalent temperature	kW	3.2 (-10°C)	4.0 (-10°C)	5.0 (-10°C)
Heating (Colder	Capacity	at operation limit temperature	kW	3.0 (-25°C)	3.4 (-25°C)	3.6 (-25°C)
(Colder Season)	Back up heating		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	В

Type								Inverter H					
Indoor U	nit			MSZ-AY15VGK(P)	MSZ-AY20VGK(P)	MSZ-AY25VGK(P)	MSZ-AY25VGK(P)	MSZ-AY35VGK(P)	MSZ-AY35VGK(P)	MSZ-AY42VGK(P)	MSZ-AY42VGK(P)	MSZ-AY50VGK(P)	MSZ-AY50VGK(P)
Outdoor	Unit			MUZ-AY15VG	MUZ-AY20VG	MUZ-AY25VG	MUZ-AY25VGH	MUZ-AY35VG	MUZ-AY35VGH	MUZ-AY42VG	MUZ-AY42VGH	MUZ-AY50VG	MUZ-AY50VGH
Refrigera	nt			R32 <sup>(1)</sup>									
	Design load kW				-	2.5	2.5	3.5	3.5	4.2	4.2	5.0	5.0
Cooling	Annual electricity	consumption (*2)	kWh/a	_	_	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++
	Design load kW		kW	0.9 (2°C)	1.3 (2°C)	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
		at reference design temperature	kW	0.9 (2°C)	1.3 (2°C)	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
	Declared Capacity	at bivalent temperature	kW	0.9 (2°C)	1.3 (2°C)	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.1 (2°C)	2.3 (2°C)	2.3 (2°C)
Heating (Warmer	Capacity	at operation limit temperature	kW	1.6 (-15°C)	1.8 (-20°C)	1.9 (-20°C)	1.9 (-20°C)	2.0 (-20°C)	2.0 (-20°C)	2.7 (-20°C)	2.7 (-20°C)	3.0 (-20°C)	3.0 (-20°C)
Season)	Back up heating capacity kW		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)
oodoo,	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+++								

Туре				Inverter H	leat Pump
Indoor Ur	nit		MSZ-AP60VG(K)	MSZ-AP71VG(K)	
Outdoor I	Unit			MUZ-AP60VG	MUZ-AP71VG
Refrigera	nt			R	32 <sup>(*1)</sup>
	Design load		kW	6.1	7.1
Cooling	Annual electricity	consumption (*2)	kWh/a	288	345
0009	SEER			7.4	7.2
		Energy efficiency class		A++	A++
	Design load		kW	2.5 (2°C)	3.7 (2°C)
		at reference design temperature	kW	2.5 (2°C)	3.7 (2°C)
	Declared	at bivalent temperature	kW	2.5 (2°C)	3.7 (2°C)
Heating			kW	3.7 (-15°C)	5.4 (-15°C)
(Warmer Season) Back up heating capac		capacity	kW	0.0 (2°C)	0.0 (2°C)
0000011,	Annual electricity	consumption (*2)	kWh/a	627	891
	SCOP			5.5	5.8
		Energy efficiency class		A+++	A+++

Туре					Inverter Heat Pump							
Indoor Ur	nit			MSZ-E	F25VG	MSZ-EF35VG		MSZ-EF42VG	MSZ-EF50VG			
Outdoor	Jnit			MUZ-EF25VG	MUZ-EF25VGH	MUZ-EF35VG	MUZ-EF35VGH	MUZ-EF42VG	MUZ-EF50VG			
Refrigera	nt					R3	32 <sup>(*1)</sup>		•			
	Design load		kW	2.5	2.5	3.5	3.5	4.2	5.0			
Cooling	Annual electricity	y consumption (*2)	kWh/a	96	96	139	139	186	233			
cooming	SEER			9.1	9.1	8.8	8.8	7.9	7.5			
	Energy efficiency class			A+++	A+++	A+++	A+++	A++	A++			
	Design load kW			1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)			
		at reference design temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)			
	Declared Capacity	at bivalent temperature	kW	1.3 (2°C)	1.3 (2°C)	1.6 (2°C)	1.6 (2°C)	2.1 (2°C)	2.3 (2°C)			
Heating (Warmer	Capacity	at operation limit temperature	kW	2.0 (-15°C)	2.0 (-15°C)	2.4 (-15°C)	2.4 (-15°C)	3.4 (-15°C)	3.5 (-15°C)			
Season)	Back up heating capacity kW		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)			
coucon,	Annual electricity	y consumption (*2)	kWh/a	311	311	398	398	489	595			
	SCOP			5.9	5.9	5.6	5.6	6.0	5.4			
		Energy efficiency class		A+++	A+++	A+++	A+++	A+++	A+++			

Туре					Inverter H	eat Pump			
Indoor Ur	nit			MSZ-BT20VG	MSZ-BT25VG	MSZ-BT35VG	MSZ-BT50VG		
Outdoor l	Unit			MUZ-BT20VG	MUZ-BT25VG	MUZ-BT35VG	MUZ-BT50VG		
Refrigera	nt			R32 <sup>(*1)</sup>					
	Design load		kW	2.0	2.5	3.5 180	5.0		
Cooling	Annual electricity	consumption (*2)	kWh/a	86	108	180	265		
o coming	SEER			8.1	8.1	6.8	6.6		
		Energy efficiency class		A++	A++	A++	A++		
	Design load		kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
		At reference design temperature	kW	0.9 (2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
	Declared Capacity	at bivalent temperature	kW	0.9(2°C)	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
Heating (Warmer	Capacity	at operation limit temperature	kW	1.3 (-15°C)	1.7 (-15°C)	2.1 (-15°C)	3.4 (-15°C)		
(warmer Season)	Back up heating	g capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)		
2220011	Annual electricity	Annual electricity consumption (*2)		234	268	304	543		
	SCOP			5.3	5.7	5.9	5.4		
		Energy efficiency class		A+++	A+++	A+++	A+++		

Туре						Inverter F	leat Pump				
Indoor Ur	nit			MSZ-HR25VF	MSZ-HR35VF	MSZ-HR42VF	MSZ-HR50VF	MSZ-HR60VF	MSZ-HR71VF		
Outdoor I	Jnit			MUZ-HR25VF	MUZ-HR35VF MUZ-HR35VF MUZ-HR42VF MUZ-HR50VF MUZ-HR60VF MUZ-HR71VF						
Refrigera	nt					R32	(*1)	•			
	Design load		kW	2.5	3.4	4.2	5.0	6.1	7.1		
Cooling	Annual electricity consumption (*2) kWh/a			141	191	226	269	296	355		
0009	SEER			6.2	6.2	6.5	6.5	7.2	7.0		
		Energy efficiency class		A++	A++	A++	A++	A++	A++		
	Design load			1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)		
		at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)		
	Declared Capacity	at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	1.6 (2°C)	2.1 (2°C)	2.5 (2°C)	3.0 (2°C)		
Heating (Warmer	Capacity	at operation limit temperature		1.9 (-10°C)	2.4 (-10°C)	2.9 (-10°C)	3.8 (-10°C)	4.6 (-10°C)	5.4 (-10°C)		
Season)	Back up heating capacity kW		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+++		

Туре				Inverter Heat Pump				
Indoor Ur	nit		MSZ-DW25VF	MSZ-DW35VF	MSZ-DW50VF			
Outdoor I	Unit			MUZ-DW25VF	MUZ-DW35VF	MUZ-DW50VF		
Refrigera	nt			R32 (*1)				
	Design load		kW	2.5	3.4	5.0		
Cooling	Annual electricity	consumption (*2)	kWh/a	135	184	261		
0009	SEER			6.2	6.2	6.5		
		Energy efficiency class		A++	A++	A++		
	Design load			1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
		at reference design temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
	Declared Capacity	at bivalent temperature	kW	1.1 (2°C)	1.3 (2°C)	2.1 (2°C)		
Heating	Capacity	at operation limit temperature	kW	1.9 (-10°C)	2.4 (-10°C)	3.8 (-10°C)		
(Warmer Season)	Back up heating	capacity	kW	0.0 (2°C)	0.0 (2°C)	0.0 (2°C)		
Coasonj	Annual electricity	Annual electricity consumption (*2) kWh.			351	508		
	SCOP			5.3	5.1	5.3		
		Energy efficiency class		A+++	A+++	A+++		

<sup>(\*1)</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or reported, vourself or 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.









# **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.





#### **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-2FALN	Л2	✓		✓	
SLP-2FALN	ΛE2	✓	✓	✓	
SLP-2FAP					✓
SLP-2FALP	,	✓			✓
SLP-2FALN	ΛP2	✓		✓	✓





#### **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.





SUZ-M25/35VA

**R32** 



SUZ-M50VA

(R32)



SUZ-M60/71VA

<sup>\*</sup>To confirm compatibility with the MXZ Series multi-type system, refer to the MXZ Series page.

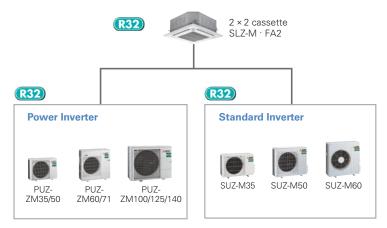




Compact, lightweight ceiling cassette units with 4-way air outlets provide maximum comfort by evenly distributing airflow throughout the entire room.

#### 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**

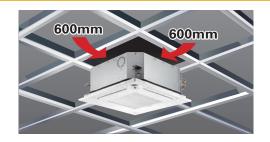
1.5kW has been introduced for multi connection. The diverse selection enables the best solution for both customer and location.

Capacity	15	25	35	50	60
SLZ-KF		<b>✓</b>	<b>✓</b>	✓	✓
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.

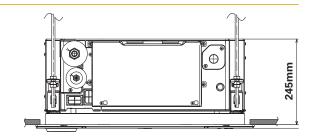
Of course, design matched 2×2 (600mm\*600mm) ceiling construction specifications.



#### 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.

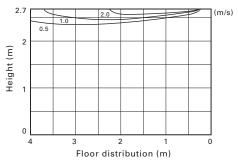


#### **Horizontal Airflow**

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.



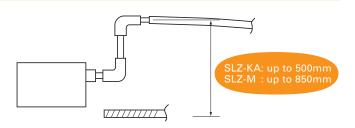


■ Control box cover



#### **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 Fsee 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 airconditioning power. When the occupancy rate is approximately 30%, air-conditioning power equivalent to 1°C during both cooling and heating operation is saved. The temperature is controlled according to the number of people.

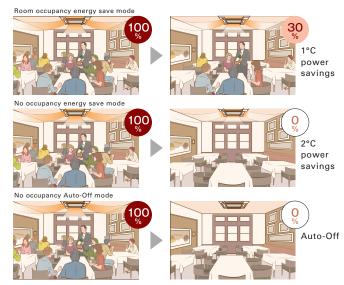
#### No occupancy energy-saving mode

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

#### No occupancy Auto-OFF mode\*

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

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



\*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

















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		<b>✓</b>		
SLP-2FALE	<b>✓</b>	<b>✓</b>		
SLP-2FALM2	<b>✓</b>		<b>✓</b>	
SLP-2FALME2	<b>✓</b>	✓	<b>✓</b>	
SLP-2FAP				✓
SLP-2FALP	<b>✓</b>			<b>✓</b>
SLP-2FALMP2	<b>1</b>		1	1

#### **Outdoor Unit**





For Multi (Twin/Triple/Quadruple)









PUZ-ZM100/125/140









Enclosed in SLP-2FALM2/SLP-2FALME2

\*optional

\*optional

\*optional





































							Outdo	oor Unit Cap	pacity						
Indoor Unit Combination		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

Type					Inverter Heat Pump	
Indoor Un	it			SLZ-M35FA2	SLZ-M50FA2	SLZ-M60FA2
Outdoor L				PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2
Refrigeran	it <sup>(*1)</sup>				R32	
Power	Source				Outdoor power supply	
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 consump	otion(*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 consump	otion(*2)	kWh/a	820	1273	1560
	SCOP(*4)			4.0	4.1	3.9
		Energy efficiency class		A+	A+	A
	Current(Max)		Α	13.2	13.3	19.4
Indoor	Input [cooling / Heating ]	Rated	kW	0.02 / 0.02	0.03 / 0.03	0.04 / 0.04
Unit	Operating Current(Max)		Α	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 Air Volume (Lo-Mi2-Mi1-Hi)		kg .	15 <3>	15 <3>	15 <3>
	Sound Level (Lo-Mi2-Mi1-Hi)	(CDL)	m³/min dB(A)	6.5-8.0-9.5 25-30-34	7.0-9.0-11.5 27-34-39	7.5-11.5-13.0 32-40-43
	Sound Level (PWL)	(SPL)	dB(A)	25-30-34 51	27-34-39 56	32-40-43 60
Outdoor	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)
Unit	Weight	1	kg	46	46	67
	Air Volume	Cooling	m³/min	45	45	55
	Tim Volumo	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.Pipino	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
Guarante	ed Operating Range (Outdoor)	Cooling(*3)	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-11 ~ +21	-11 ~ +21	-20 ~ +21

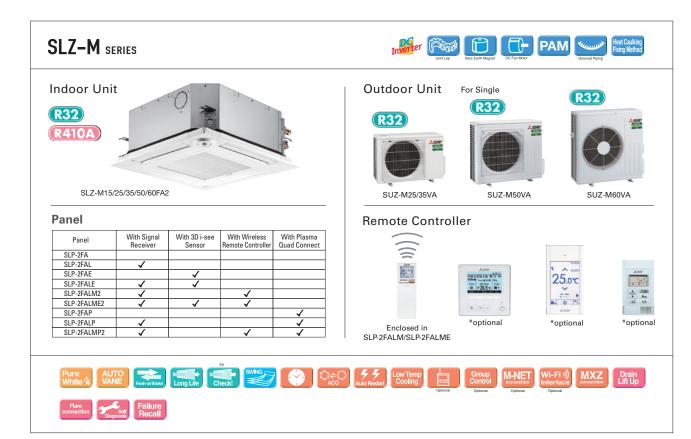
<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 675. This means 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of f32 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 2009/12/E/C.E.Pergy-related Products Directive and Regulation(EU) No206/2012.

\*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.



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

Type					Income II	4 D	
				CL7 MOFFAO	Inverter H		0171400540
Indoor Uni				SLZ-M25FA2	SLZ-M35FA2	SLZ-M50FA2	SLZ-M60FA2
Outdoor U				SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA
Refrigeran					R3		
Power	Source				Outdoor po		
Supply	Outdoor(V/Phase/Hz)				230/Sir		
Cooling	Capacity		kW	2.5	3.5	4.6	5.7
			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 consump	otion(*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
			kW	1.3 - 4.2	1.0 - 5.0	1.3 - 5.5	1.6 - 7.3
	Total Input		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		kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.1 (-10°C)
	Dooial ou oupdoing	at bivalent temperature	kW	2.0 (-7°C)	2.3 (-7°C)	3.2 (-7°C)	4.1 (-7°C)
			kW	2.0 (-10°C)	2.3 (-10°C)	3.2 (-10°C)	4.1 (-10°C)
	Back up heating capacity	at operation in the temperature	kW	0.2	0.3	0.4	0.5
	Annual electricity consump	ation(*2)	kWh/a	716	845	1192	1560
	SCOP(*3)	OLIOII ·	KVVII/d	4.3	4.3	4.2	4.1
	SCOF	Energy efficiency class		4.3 A+	4.5 A+	4.2 A+	A+
Onevetine	Current(Max)		Α	7.0	8.7	13.8	15.2
Indoor	Input [cooling / Heating ]		kW	0.02 / 0.02	0.02 / 0.02	0.03 / 0.03	0.04 / 0.04
Unit	Operating Current(Max)		A	0.02 / 0.02	0.02 / 0.02	0.03 / 0.03	0.04 / 0.04
Ollit	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	II W D	kg	15 <3>	15 <3>	15 <3>	15 <3>
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/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)		dB(A)	25-28-31	25-30-34	27-34-39	32-40-43
	Sound Level (PWL)		dB(A)	48	51	56	60
Outdoor	Dimensions	H*W*D	mm	550-800-285	550-800-285	714-800-285	880-840-330
Unit	Weight		ka	30	35	41	54
Oille	Air Volume	Cooling	m³/min	36.3	34.3	45.8	50.1
	All volume	Heating	m³/min	34.6	32.7	43.7	50.1
	Sound Level (SPL)		dB(A)	34.6 45	32.7 48	43.7	49
	Sound Level (SFL)		dB(A)	45	48	48	51
	Sound Level (PWL)						
		Cooling	dB(A)	59	59	64	65
	Operating Current(Max)			6.8	8.5	13.5	14.8
F / B' '	Breaker Size	11: :10	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		m	12	12	30	30
Guarantee	ed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24

<sup>\*1</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
\*2 Energy consumption based on standard test results. Actual energy consumption who whe 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.



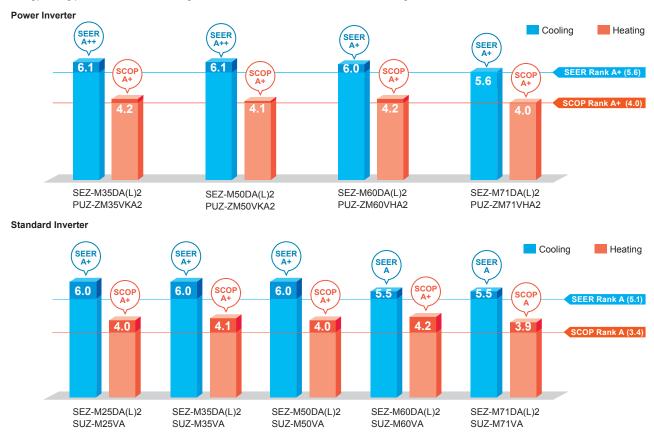


This concealed ceiling-mounted indoor unit series is compact, and fits easily into rooms with lowered ceilings. Highly reliable energy-saving performance makes it a best match choice for concealed unit installations.

## **High Energy Efficiency**



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



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

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



#### Compact Design with a Height of 200 mm

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



SEZ-M D	A(L)2	M25	M35	M50	M60	M71
Height	mm			200		
Width	mm	790	99	90	11	90

#### 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).

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

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

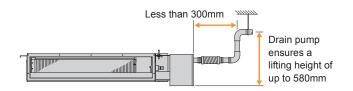
#### Selectable Static Pressure Levels

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

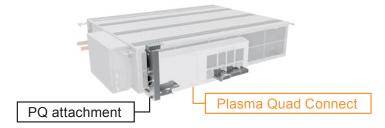
#### **Drain Pump (Optional)**

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.



#### 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.



<sup>\*</sup>Operation noise may increase due to the installation environment or the operation status.

<sup>\*</sup>The use of drain pump may increase the operation noise.

#### SEZ-M SERIES

















#### Indoor Unit



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

#### **Outdoor Unit**





For Multi (Twin/Triple/Quadruple)









PUZ-ZM35/50

PUZ-ZM60/71

PUZ-ZM71

PUZ-ZM100/125/140









Enclosed in SEZ-M DAL2

\*optional (for SEZ-M DA2)

\*optional (for SEZ-M DA2)

(for SEZ-M DA2)



























		Outdoor Unit Capacity													
Indoor Unit Combination				For Single					For Twin			For Triple		For Qu	adruple
	35	50	60	71	100	125	140	71	100	125	100	125	140	125	140
Power 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
Dietribution Pine		_	_	_	_	_	_	N/	ISDD-50TR	2_F	_ N	/SDT-111R3	-F	MSDE	1111R2-F

Туре					Inverter	leat Pump	
ndoor Unit	t			SEZ-M35DA(L)2	SEZ-M50DA(L)2	SEZ-M60DA(L)2	SEZ-M71DA(L)2
Outdoor U	nit			PUZ-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2
efrigerant	t(*1)				F	32	
ower	Source				Outdoor p	ower supply	
upply	Outdoor(V/Phase/Hz)					ingle/50	
ooling	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)	1		4.20	3.80	4.00	3.70
	Design load		kW	3.6	5.0	6.1	7.1
	Annual electricity consump	otion(*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+
eating	Capacity	Rated	kW	4.1	6.0	7.0	8.0
J		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		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 consump	otion(*2)	kWh/a	791	1279	1464	1633
	SCOP(*4)(*5)		ice erry a	4.2	4.1	4.2	4.0
	555.	Energy efficiency class		A+	A+	A+	A+
perating	Current(Max)	zilorgy officional of class	Α	13.7	13.8	19.9	20.0
door	Input [cooling / Heating ]	Rated	kW	0.047	0.077	0.084	0.102
nit	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
utdoor	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)
nit	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)		А	13	13	19	19
	Breaker Size		А	16	16	25	25
	Diameter(*6)	Liquid/Gas	mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88
xt.Piping					= 0		
xt.Piping	Max.Length	Out-In	m	50	50	55	55
xt.Piping		Out-In	m	50 30	30	30	30
xt.Piping	Max.Length						

<sup>\*1</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

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



















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

#### **Outdoor Unit**







SUZ-M50VA



SUZ-M60/71VA







\*optional (for SEZ-M DA2)



\*optional (for SEZ-M DA2)



\*optional (for SEZ-M DA2)

















































				oor Unit Cap		
Indoor Unit C	Combination			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 Un	it			SEZ-M25DA(L)2	SEZ-M35DA(L)2	SEZ-M50DA(L)2	SEZ-M60DA(L)2	SEZ-M71DA(L)2					
Outdoor L	Init			SUZ-M25VA	SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA					
Refrigerar	nt(*1)				R32								
Power	Source					Outdoor power supply							
Supply	Outdoor(V/Phase/Hz)					230/Single/50							
Cooling	Capacity	Rated	kW	2.5	3.5	5.0	6.1	7.1					
ŭ	11 ' '	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 consump	ption(*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					
	11	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	<u> </u>	kW	0.2	0.3	0.5	0.5	0.6					
	Annual electricity consump	otion(*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	g Current(Max)		Α	7.4	9.2	14.3	15.7	15.8					
Indoor	Input [cooling / Heating ]	Rated	kW	0.043	0.047	0.077	0.084	0.102					
Unit	Operating Current(Max)		Α	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)	T= .	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)		dB(A)	23 - 26 - 30	23 - 27 - 31	30 - 34 - 37	30 - 34 - 38	30 - 35 - 40					
	Sound Level (PWL)	5Pa <sup>(*7)</sup>	dB(A)	22 - 25 - 29	22 - 26 - 30	29 - 33 - 36	29 - 33 - 37	29 - 34 - 39					
Outdoor	Dimensions	H*W*D	dB(A) mm	50 550-800-285	51 550-800-285	57 714-800-285	58 880-840-330	60 880-840-330					
Unit	Weight	H W D	kg	30	35	/ 14-800-285 41	880-840-330 54	55					
OIIIL	Air Volume	Cooling	m³/min	36.3	34.3	45.8	50.1	50.1					
	Air volume	Heating	m³/min	36.3	34.3	45.8	50.1	50.1					
	Sound Level (SPL)	Cooling	dB(A)	34.6 45	48	43.7	49	49					
	Sound Level (SPL)	Heating	dB(A)	45	48	48	51	51					
	Sound Level (PWL)	Cooling	dB(A)	46 59	48 59	49 64	65	66					
	Operating Current(Max)	Cooling	ΔB(A)	6.8	8.5	13.5	14.8	14.8					
	Breaker Size		^	10	10	20	20	14.8					
Evt Dinin	g 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					
EXCPIPIN	Max.Length	Out-In		20	20	30	30	30					
	Max.Height	Out-In	m m	12	12	30	30	30					
Guaranta	ed Operating Range (Outdoor)	Cooling	°C	-10 ~ +46	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46					
Guarante	eu Operating nange (Outdoor)	Heating	°C	-10 ~ +46 -10 ~ +24	-10 ~ +46 -10 ~ +24	-10 ~ +40 -10 ~ +24	-15 ~ +46 -10 ~ +24	-15 ~ +46 -10 ~ +24					
		пеашу	U	-1U ~ +24	-1U ~ +24	-1U ~ +24	-10 ~ +24	-1U ~ +24					

<sup>\*1</sup> 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 CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

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

\*3 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.

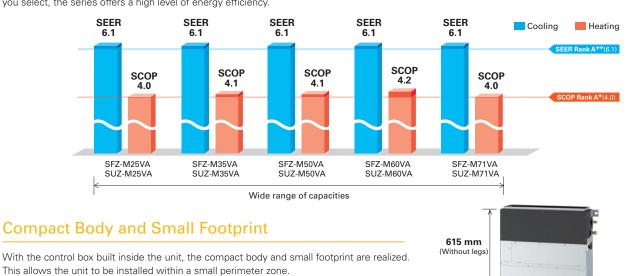
# SFZ SERIES

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.



#### 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.



# 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 Air outlet Air outlet \*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.

<sup>Z−</sup>200 mm

700 mm

# SFZ-M SERIES



Type





Outdoor Unit





SUZ-M60/71VA

# **R32**

Inverter Heat Pump







PAC-YT52CRA \*Optional

Z-M25/35/50/60/71VA	SUZ-M25/35VA	SUZ-M50VA

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	Source			Outdoor power supply					
Supply	Outdoor (V/Phase/H	z)		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 <sup>(*2)</sup> SEER <sup>(*3)(*4)</sup> Energy Efficiency Class		kWh/a	143	199	284	346	403	
				6.1	6.1	6.1	6.1	6.1	
				A++	A++	A <sup>++</sup>	A++	A++	
Heating	Capacity	Rated	kW	3.2	4.1	6.0	7.0	8.0	
(Average Season)		Min - Max	kW	1.2 - 4.2	1.0 - 5.0	1.5 - 7.2	1.6 - 8.0	2.0 - 10.2	
Season)	Total Input	Rated	kW	0.886	1.051	1.617	1.886	2.156	
	COP	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 <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	
Operating	g Current (max)		Α	7.2	8.9	14.1	15.4	15.6	
Indoor	Input	Rated	kW	0.041	0.044	0.072	0.078	0.095	
Unit	Operating Current (max)		Α	0.44	0.44	0.61	0.64	0.76	
	Dimensions <panel>(*6)(*7) H*W*D</panel>		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></panel>		kg	18.5	22.5	22.5	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(*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	
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	
			Α	6.8	8.5	13.5	14.8	14.8	
			А	10	10	20	20	20	
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 Cooling		Cooling	°C	−10 ~ +46	-10 ~ +46	−15 ~ +46	−15 ~ +46	−15 ~ +46	
[Outdoor	J	Heating	°C	−10 ~ +24	−10 ~ +24	−10 ~ +24	−10 ~ +24	−10 ~ +24	

<sup>\*1</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of 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 636 (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

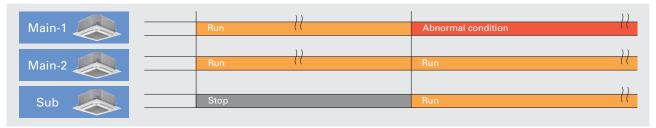
#### 2+1 Back-up Rotation\*

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

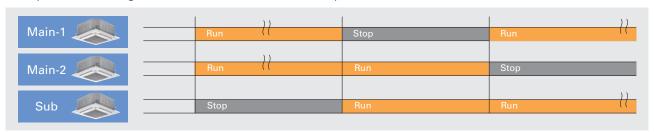
#### Back-up Function

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.



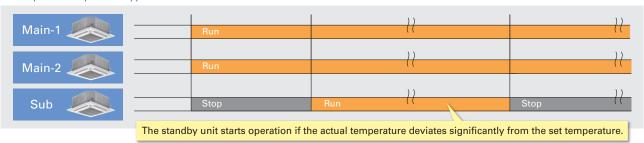
#### **Rotation Function**

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.









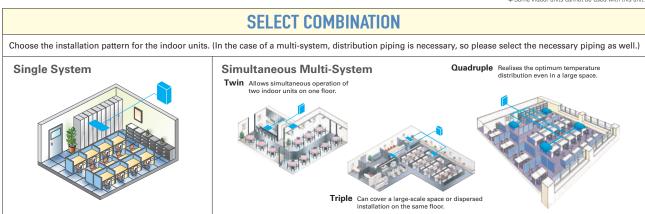


# **SELECTION**

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.



\* Some indoor units cannot be used with this unit.



#### Connectable Combinations for Inverter Units

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









**R32** 



PUZ-ZM35/50VKA2

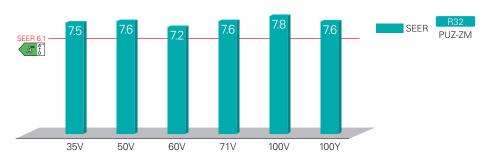
PUZ-ZM100/125/140V(Y)DA PUZ-ZM60/71VHA2

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.

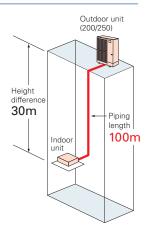
Introduction of R32 refrigerant reduces energy consumption and realises energy savings.



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

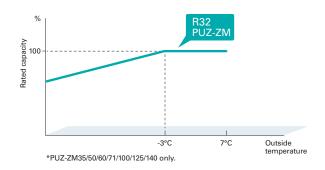
Longer piping length realised for 60, 71, 100, 125, 140, 200 and 250 classes, widely increasing installation flexibility.

	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.



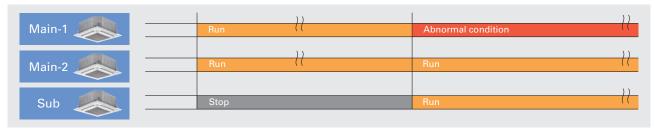
## 2+1 Back-up Rotation\*

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.



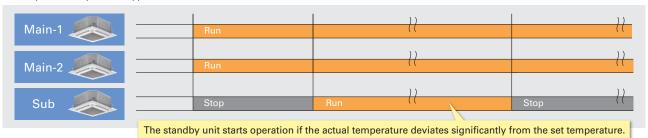
#### Rotation Function

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.

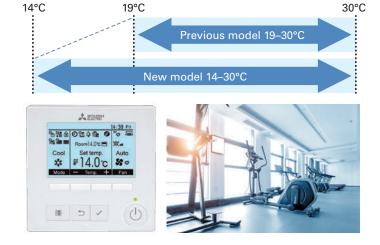


## **Extended Cooling Set Temperature Range\***

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.

Collect model names and S/N Model name display 0 OU PUZ-ZM200YKA2 IU1 PLA-ZM50EA2 (example) IU2 PLA-ZM50EA2 IU3 PLA-ZM50EA2 IU4 PLA-ZM50EA2 Collect data: 🗸 S/N -Address + Collect model names and S/N Serial number display 0 OU 1ZU00001 (example) IU1 1ZA00001 IU2 1ZA00002 TU3 17A00003 IU4 1ZA00004 Collect data: 🗸

−Address ±

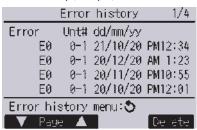
Model

## 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)

Preli	minar	error	hist. <b>1</b> /8
Error	Unt#	dd/mm/y	У
E0			0 PM12:34
E0	0-1	20/12/2	0 AM 1:23
E0			0 PM10:55
E0	0-1	20/10/2	0 PM12:01
Error hi	story	menu: 🖎	
▼ Fea	⊢ 🛦		De ete

# 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)

Energy	/ data
2019- 1-1	1234.5kWh 1/6
0:30 123.4kWh	2:30 123.4kWh
1:00 123,4kWh	3:00 123,4kWh
1:30 123.4kWh	3:30 123.4kWh
2:00 123.4kWh	4:00 123.4kWh
Return: 🐧	
— Date —	🔻 🔻 Page 🛕

#### ●Daily (example)

	Ene	rgy	data		
2019	- 1	12:	3456.	7kWh	1/4
31	1234.5kW	h	27	1234.	5kWh
30	1234.5kW	h	26	1234.	5kWh
29	1234.5kh	h	25	1234.	5kWh
28	1234.5kW	h	24	1234.	5kWh
Retu	rn: 🐧				
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#### Monthly (example)

E	inergy data	
▶2019- 1	123456. 7kWh	1/3
2018-12	123456. 7kWh	
2018-11	123456, 7kWh	
2018-10	123456. 7kWh	
2018- 9	123456, 7kWh	
View daily	data:✔	
▼ Ourson		

## Improved Defrosting Performance\*

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

#### Avoiding Simultaneous Defrosting

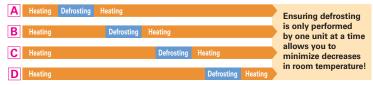
When each of multiple units is in operation for heating in the same space, these may start defrosting at the same time, resulting in a drop in the room temperature. Therefore, we have developed a new function that controls up to four-refrigerant air conditioning system to avoid simultaneous defrosting. 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



#### Defrosting When People Are Absent

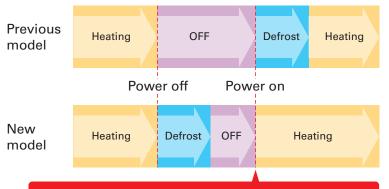
The use of the 3D i-see sensor allows a more comfortable defrosting schedule. After a large amount of frost has built up, the system will switch to defrosting when the 3D i-see sensor detects that no people are present. By minimizing defrosting while people are in the room, there is a much lower chance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

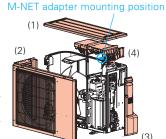
The optional M-NET adapter, which allows centralized control (M-NET control), is now easier to install. The redesigned mounting position significantly reduces the time and effort for installation.

Conventional Model

PAC-SJ96MA-E

Removed parts

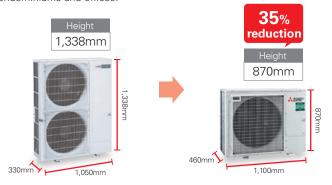
The (1) top panel, (2) front panel, (3) service panel, and (4) electronics box need to be removed, and the connector must be temporarily unplugged.



#### New Model M-NET adapter mounting position (1) PAC-SK15MA-E Removed parts There is no need to remove the (1) top panel, (2) service panel, (3) service plate, electronics

# Compact Design ZM100/125/140

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

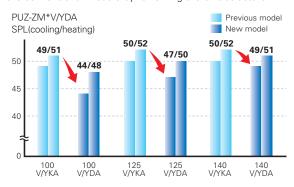


#### Low Noise ZM100/125/140

box, nor temporarily unplug the

connector.

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]

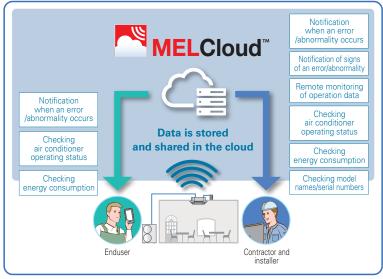
- Model name display
- Serial number display
- Collection of operation data
- Energy consumption display

etc...

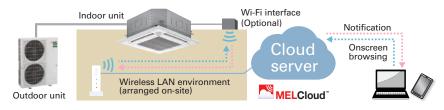




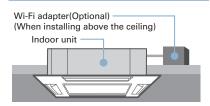




#### **MELCloud System Configuration**



## Wi-Fi Adapter (Optional) Installation



#### On-Site Installation and Configuration

#### Wireless LAN adapter installation

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

Wireless LAN adapter and router connection settings Wireless 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.

This operation

#### 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



#### 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.

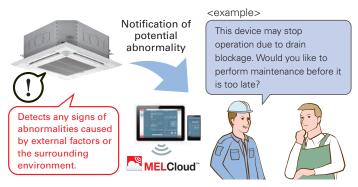
e.g. <Peak cut control> It is possible to utilize an external demand signal to reduce power consumption during peak hours. By satisfying the need for reducing peak power consumption or shifting consumption to a non-peak period, we have increased the range of options for our customers.

#### 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]

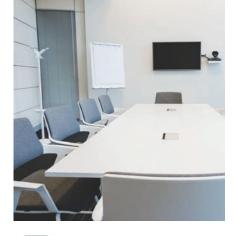
- ullet Filter blockage ullet Drain blockage ullet Refrigerant leakage
- •Heat exchanger blockage etc...



data is strange..

# Standard Inverter SERIES

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













SUZ-M35VA

SUZ-M50VA

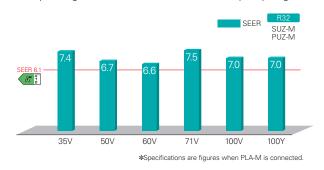
SUZ-M60/71VA

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

PUZ-M200/250YKA2

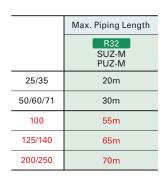
#### Improved Energy Efficiency

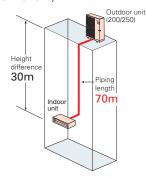
Introduction of new R32 refrigerant realises improved cooling efficiency. Rating of more than 6.6 achieved for all capacity range.



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

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





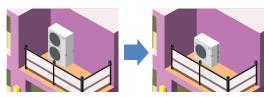
# Light Weight and Compact Size

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

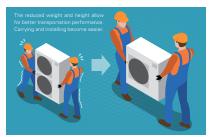


#### Unobstructive, compact, and easy to hide from view

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



#### Easy transportation and installation





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

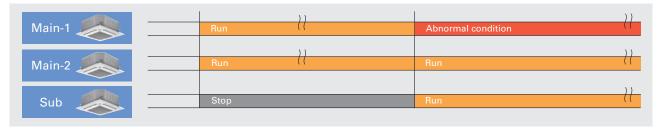
## 2+1 Back-up Rotation\*

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.



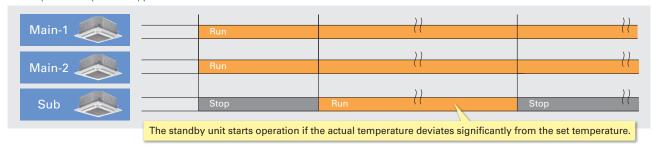
#### **Rotation Function**

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**

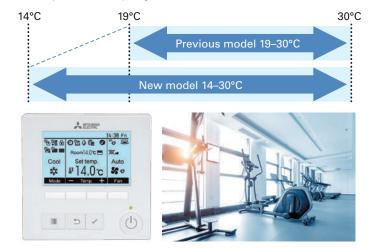
If the actual room temperature greatly differs from the set temperature and two-refrigerant air conditioning system is insufficient, the standby unit starts operation to provide support.



## **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.

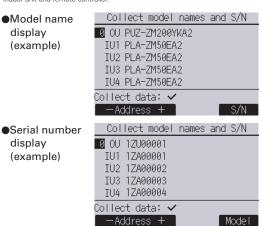
\*Insulation kit (PAC-SK36HK-E) is required when indoor unit is PLA series.
\*Availability of this function is depending on outdoor unit, indoor unit and remote controller.



# 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.

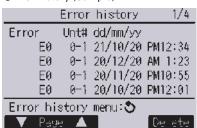


# **Preliminary Error History\***

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)

Preli	minar	error h	ist. 1/8
Error	Unt#	dd/mm/yy	
E0	0-1	21/10/20	PM12:34
E0		20/12/20	
E0		20/11/20	
E0	0-1	20/10/20	PM12:01
Error hi	story	menu: 🖎	
▼ Fea	<b>⊢</b> ▲		Се ЕТЕ

## 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 >

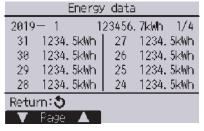
Time data: Every 30 minutes over the past month Monthly/daily data: Monthly over the past 14 months

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)

Energy	/ data
2019- 1-1	1234.5kWh 1/6
0:30 123.4kWh	2:30 123.4kWh
1:00 123.4kWh	3:00 123,4kWh
1:30 123.4kWh	3:30 123.4kWh
2:00 123.4kWh	4:00 123.4kWh
Return: 3	
– Date –	🔻 Page 🔺





#### Monthly (example)

Er	nergy data	
▶2019- 1	123456. 7kWh	1/3
2018-12	123456.7kWh	
2018-11	123456.7kWh	
2018-10	123456. 7kWh	
2018- 9	123456, 7kWh	
View daily	data:✔	
▼ Ourson	lack	

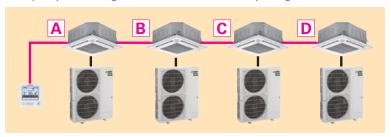
# Improved Defrosting Performance\*

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

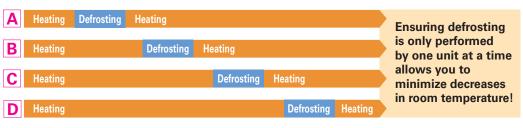
#### Avoiding Simultaneous Defrosting

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

#### Example System Configuration Four sets controlled by a single remote controller



#### ■When All Sets Are Controlled Together



## **Utilizing IoT for Improved Convenience\***

\*Availability of IoT functions are depending on MELCloud version.

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

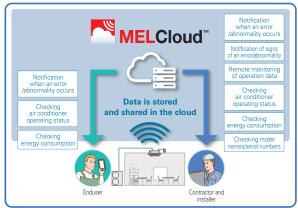
#### [Basic Operation Functions]

- ●Operation on/off ●Temperature setting
- ●Operation mode ●Airflow speed
- ●Airflow direction etc...

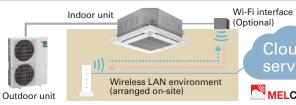
#### [Data Collection and Display]

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



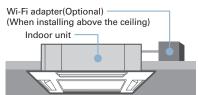


#### **MELCloud System Configuration**





# Wi-Fi Adapter (Optional) Installation



#### On-Site Installation and Configuration

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

Wireless LAN adapter and router connection settings Wireless LAN adapter and server connection settings

> This operation data is strange.

#### Collection of operation data

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

#### Operation data that can be collected (example)

- ●Compressor frequency ●Compressor operating current ●Outdoor discharge temperature
- ●Outdoor heat exchanger temperature ●Outdoor air temperature ●Compressor shell temperature
- ●Sub cool ●Discharge superheat ●Indoor inlet temperature ●Indoor heat exchanger temperature
- ●Total compressor operating time●Compressor operation count ●Indoor filter operating time
- \*1The total compressor operating time is displayed in units of 10 hours. The compressor operation count is displayed in units of 100.
  \*2 Indicates the elapsed time since a filter sign reset was performed.

#### Demand control

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

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

#### Notification of potential abnormality

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

#### [AbnormalitiesThat HaveTheir Signs Monitored]

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





## Deluxe 4-way Cassette Line-up

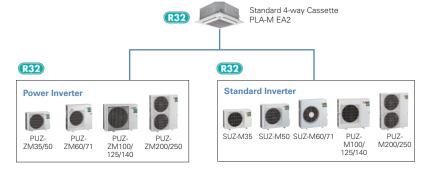
For users seeking even further energy savings, Mitsubishi Electric now offers deluxe units (PLA-ZM) to complete the line-up of models in this series, from 35-140. Compared to the standard models (PLA-M), deluxe models provide additional energy savings, contributing to a significant reduction in electricity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

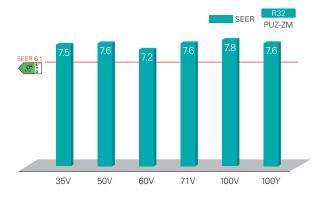






## Industry-leading Energy Efficiency

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 Fsee Sensor for S & P SERIES

#### Detects number of people

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

#### Detects people's position

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



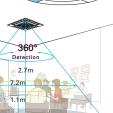
Detects number of people



Detects position and number of people

8 sensors

Detects floor temperature



Floor surface

\*In case of a 2.7m ceiling

#### 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.

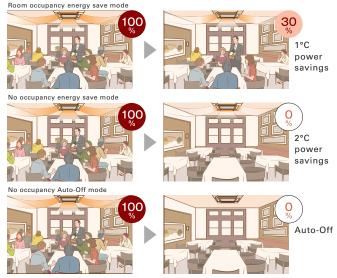
#### No occupancy energy-saving mode

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.

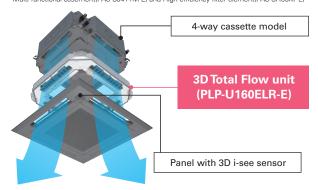


\*PAR-41MAA is required for each setting.

#### 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)

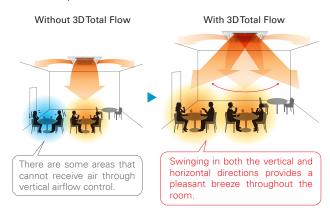


#### Swinging

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 pecessary.





#### 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 3DTotal 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.

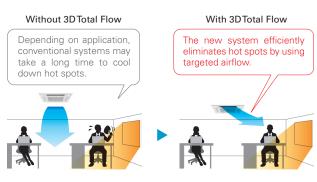


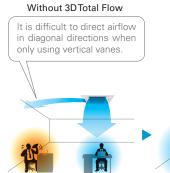
#### Direct mode

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.





#### With 3DTotal Flow

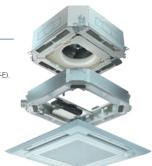
Ensures comfort even when you are located diagonally from an outlet.

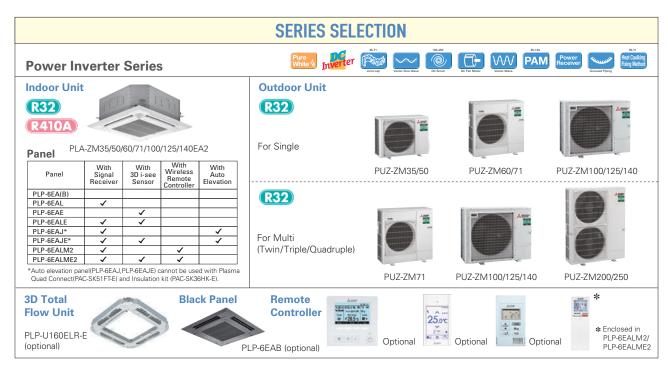


# Connectable to Plasma Quad Connect

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

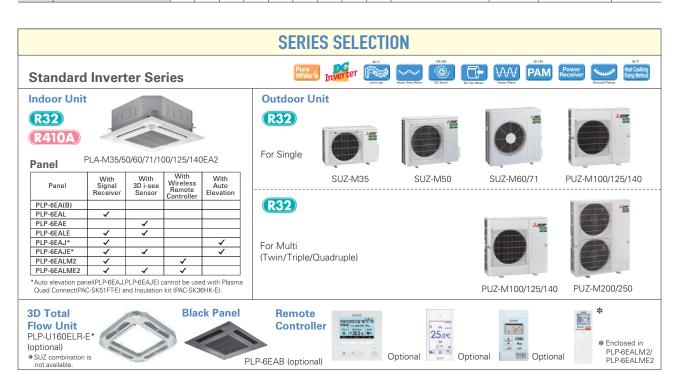
\*Plasma Quad Connect(PAC-SK51FTE) cannot be used with PLP-U160ELR-E(3D Total Flow unit), Insulation kit (PAC-SK36HK-E), Auto elevation panel(PLP-6EAJ, PLP-6EAJE), Multi functional casement(PAC-SJ41TM-E) and High-efficiency filter element(PAC-SH59KF-E).





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

		Outdoor Unit Capacity																			
Indoor Unit Combination		For Single								ForTwin					F	ForTriple			For Quadruple		
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power Inverter (PUZ-ZM)		35x1	50x1	60×1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
Distribution Pipe		MSDD-50TR2-E MSDD-50WR2-E MSD1						DT-1111	R3-E		SDF- R2-E										



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

			Outdoor Unit Capacity																		
Indoor	For Single									ForTwin					F	ForTriple			For Quadruple		
			50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standa	Standard Inverter (SUZ & PUZ-M)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
Distribution Pipe		-	-	_	-	-	-	-	-	-	-	MSD	D-50T	R2-E		DD- /R2-E	MSI	OT-111	R3-E		SDF- IR2-E





















































POWER I	NVERTER	Silent Limit Back		Cor	ntrol Connection	СОМРО	Interface	ning le reus Reu		Down	connection	Self Reca	
Туре								Inverter H	eat Pump				
Indoor Unit				PLA-ZM35EA2	PLA-ZM50EA2	ΡΙ Δ-7Μ60ΕΔ2	PLA-ZM71EA2		PLA-ZM100EA2	PLA-ZM125EA2	PLA-ZM125EA2	PLA-ZM140EA2	PLA-ZM140EA2
Outdoor Ur				PUZ-ZM35VKA2		PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VDA		PUZ-ZM125VDA	PUZ-ZM125YDA	PUZ-ZM140VDA	PUZ-ZM140YDA
Refrigerant				T OL LINOUTIU L	1 OE EINOUTO E	1 02 2110011112	102211111111	R		T OE EMILEUTEA	TOE EMILEOTOR	T OE EMITTOREST	TOP ENTITION
Power	Source							Outdoor po					
Supply	Outdoor(V/Phase/Hz)				\/KΔ-\/H	A:230/Single/50	1	Outdoor po		·230/Single/50	YDA/400/Thre	ω/5Ω	
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
Cooming	Capacity		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		kW	0.705	1.106	1.452	1.651	2.160	2.160	3.473	3.473	3.622	3.622
	EER	riotod		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 consump		kWh/a	168	230	296	327	426	436				
	SEER (*4)	otion	KVVII/G	7.5	7.6	7.2	7.6	7.8	7.6				
	SLER.	Energy efficiency class		7.5 A++	7.0 A++	7.2 A++	7.0 A++	7.8 A++	A++				
Heating	Capacity		kW	4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
пеаціід	Сарасну		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		kW	0.820	1.363	1.707	1.818	2.667	2.667	3.889	3.889	4.572	4.572
	COP	Hated	KVV	5.00	4.40	4.10	4.40	4.20	4.20	3.889	3.889	3.50	3.50
			kW	2.5	3.8	4.10	4.40	7.8	7.8	3.60	3.60	3.50	3.50
	Design load												
	Declared Capacity		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)		-		-
			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)			-	
	l		kW	2.1 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.4 (-20°C)	5.8 (-20°C)	5.8 (-20°C)			-	
	Back up heating capacity		kW	0.0	0.0	0.0	0.0	0.0	0.0			-	
	Annual electricity consump	ption (*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++		-		-
	Current(Max)		A	13.2	13.2	19.2	19.3	27.0	8.5	27.0	9.5	30.7	9.7
Indoor	Input [cooling / Heating ]		kW	0.03 / 0.03	0.03 / 0.03	0.03 / 0.03	0.05 / 0.05	0.07 / 0.07	0.07 / 0.07	0.08 / 0.08	0.08 / 0.08	0.10 / 0.10	0.10 / 0.10
Unit	Operating Current(Max)		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		10-840 <40-950					0-840 <40-950			
	Weight		kg	21 <5>	21 <5>	21 <5>	24 <5> 17-19-21-23	26 <5>	26 <5> 19-22-25-28	26 <5> 21-24-26-29	26 <5>	26 <5> 24-26-29-32	26 <5> 24-26-29-32
	Air Volume (Lo-Mi2-Mi1-Hi) Sound Level (Lo-Mi2-Mi1-Hi) (		m³/min dB(A)	11-13-15-16 26-28-29-31	12-14-16-18 27-29-31-32	12-14-16-18 27-29-31-32	28-30-33-36	19-22-25-28 31-34-37-40	31-34-37-40	33-36-39-41	21-24-26-29 33-36-39-41	36-39-42-44	36-39-42-44
	Sound Level (LO-IVIIZ-IVIII-HI) (		dB(A)	51	54	54	28-30-33-36 57	61	61	62	62	65	65
Outdoor	Dimensions		mm	630-809-300	630-809-300			870-1100-460(+45)			870-1100-460(+45)		
Unit	Weight		kg	46	46	67	67	107	114	107	116	107	121
Ollit	Air Volume		m³/min	45	45	55	55	80	80	84	84	97	97
	Air volume		m³/min	45	45	55	55	58	58	77	77	80	80
	Sound Level (SPL)		dB(A)	45	44	47	47	44	44	47	47	49	49
	Sound Level (SPL)		dB(A)	44	44	47	47	44	48	50	50	51	51
	Committee of (DMII)			65	65	67	67	63	63	66	66	68	68
	Sound Level (PWL)	Cooling	dB(A)	13	13	19	19	26.5	8	26.5	9	30	9
	Operating Current(Max) Breaker Size		A	16	13	25	19 25	32	16	32	16	40	16
Fort Division		1:::1/0	Α									9.52 / 15.88	
Ext.Piping	Diameter(*5)		mm	6.35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88 100	9.52 / 15.88	9.52 / 15.88	100	9.52 / 15.88
	Max.Length		m	50	50	55	55	100		30	30	30	100
_	Max.Height		m	30	30	30	30	30	30				30
Guarantee	d Operating Range (Outdoor)	Cooling(*3)	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-20 ~ 46	-20 ~ 46 -20 ~ 21	-20 ~ 46 -20 ~ 21	-20 ~ 46 -20 ~ 21	-20 ~ 46 -20 ~ 21	-20 ~ 46
		Heating		-11 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ 21	-20 ~ 21	-20 ~ 2T	-20 ~ 2T	-20 ~ 21	-20 ~ 21

<sup>\*1</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the producy ourself 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) No208/2012.
\*5 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.





















































			-,		-,	-	_	4,					
Туре								Inverter H					
Indoor Unit				PLA-M35EA2	PLA-M50EA2	PLA-M60EA2	PLA-M71EA2	PLA-M100EA2	PLA-M100EA2	PLA-M125EA2	PLA-M125EA2	PLA-M140EA2	PLA-M140EA2
Outdoor Un	it			SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA2	PUZ-M100YKA2	PUZ-M125VKA2	PUZ-M125YKA2	PUZ-M140VKA2	PUZ-M140YKA2
Refrigerant <sup>(1)</sup>	1)							R	32	•			
Power	Source							Outdoor po	wer supply				
Supply	Outdoor(V/Phase/Hz)						VA-VKA	:230/Sinale/5	0, YKA:400/TI	hree/50			
Cooling	Capacity	Rated	kW	3.6	5.5	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
		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	1.000	1	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	n (*2)	kWh/a	170	285	320	331	475	475	_		_	_
	SEER (*4)	<i></i>	KVVII/G	7.4	6.7	6.6	7.5	7.0	7.0	_	_	_	_
	OLLII.	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
rieating	Сарасіту	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	4.2 - 15.6	4.2 - 15.6
	COP	nateu	KVV	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	3.71	3.71	3.41	3.41
			kW							<del>-</del>	<del></del>		_
	Declared Capacity	at reference design temperature		2.3 (-10°C)	3.8 (-10°C)	4.1 (-10°C)	5.2 (-10°C)	6.0 (-10°C)	6.0 (-10°C)				_
		at bivalent temperature	kW	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	kWh/a	0.3	0.5	0.5	0.6	2.0	2.0				_	
	Annual electricity consumption (*2) SCOP (*4)			774	1458	1459	1798	2406	2406	-	-	-	-
				4.7	4.1	4.4	4.5	4.6	4.6	_	-	-	-
		Energy efficiency class		A++	A+	A+	A+	A++	A++	-	_	-	_
	Current(Max)		А	8.7	13.7	15.0	15.1	20.5	12	27.2	12.2	30.7	12.2
Indoor	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
Unit	Operating Current(Max)	1	Α	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>		
	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) (SF	·L)	dB(A) dB(A)	26-28-29-31 51	27-29-31-32 54	27-29-31-32 54	28-30-32-34 56	31-34-37-40 61	31-34-37-40 61	33-37-41-44 65	33-37-41-44 65	36-39-42-44 65	36-39-42-44 65
Outdoor	Sound Level (PWL)	H*W*D					880-840-330		981-1050-330(+40)		981-1050-330(+40)		981-1050-330(+40)
Unit	Dimensions Weight	H-W-D	mm	35	41	54	55	76	78	84	85	84	85
Onit		CE	kg				50.1	79	79	86	86	86	86
	Air Volume	Cooling	m³/min	34.3	45.8	50.1							
		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)		А	8.5	13.5	14.8	14.8	20	11.5	26.5	11.5	30	11.5
	Breaker Size		А	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							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
Guarantee	d 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 -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | °C Heating | °C | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -10 ~ +24 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15 ~ +21 | -15



























Silent Silent Rotation Back-up  Cyclicidal Cyclicidal Cyclic Cycl	Group Control Control Compo Wi-Fi i)  Control Control Compo Control Compo Control Cont	
	Inverter Heat Pumn	

Type								Inverter H	eat Pump				
Indoor Unit			PLA-					PLA-M100EA2					
Outdoor U	nit		PUZ-	Z-ZM35VKA2	PUZ-ZM50VKA2	PUZ-ZM60VHA2	PUZ-ZM71VHA2	PUZ-ZM100VDA	PUZ-ZM100YDA	PUZ-ZM125VDA	PUZ-ZM125YDA	PUZ-ZM140VDA	PUZ-ZM140YDA
Refrigerant	(*1)							R				•	
Power	Source							Outdoor po					
Supply	Outdoor(V/Phase/Hz)				VKA-VHA:23	30/Single/50			VDA	:230/Single/50	, YDA/400/Thre	ee/50	
	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
Cooling	EER			4.79	4.25	4.00	4.14	4.30	4.30	3.50	3.50	3.58	3.58
Cooling	Design load	kW		3.6	5.0	6.1	7.1	9.5	9.5				
	Annual electricity consump	tion(*2) kW		172	234	301	336	437	448				
	SEER(*4)			7.3	7.4	7.1	7.4	7.6	7.4				
		Energy efficiency class		A++	A++	A++	A++	A++	A++				
	Capacity	Rated kW		4.1	6.0	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
		Min-Max kW		.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
Heating	Design load	kW		2.5	3.8	4.4	4.7	7.8	7.8				
(Average	Declared Capacity	at reference design temperature kW		5 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)				
Season)		at bivalent temperature kW		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		1 (-11°C)	3.7 (-11°C)	2.8 (-20°C)	3.4 (-20°C)	5.8 (-20°C)	5.8 (-20°C)				
	Back up heating capacity	kW		0.0	0.0	0.0	0.0	0.0	0.0				
	Annual electricity consump	tion(*2) kW	h/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
	Input [cooling / Heating ]	Rated kW		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>		
Indoor	Weight	kg		19 <5>	19 <5>	21 <5>	21 <5>	24 <5>	24 <5>	26 <5>	26 <5>	26 <5>	26 <5>
Unit	Air Volume (Lo-Mid-Hi)			-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			-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)	H*W*D mm		51	54	54	56	61 870-1100-460(+45)	61	65	65	65	65
	Dimensions		1 630-	0-809-300								870-1100-460(+45)	
	Weight Air Volume	Cooling kg	min	46 45	46 45	67 55	67 55	107 80	114 80	107 84	116 84	107 97	121 97
	Air volume		min	45	45	55	55	58	58	77	77	80	80
Outdoor	Sound Level (SPL)			45	45	47	47	44	44	47	47	49	49
Unit	Sound Level (SPL)			44	46	47	47						
Ollit	0 11 1/8/4/1)			65				48	48	50	50	51	51
	Sound Level (PWL)	Cooling dB(	A)		65	67	67	63	63	66	66	68	68
	Operating Current(Max)	Α Δ		13 16	13 16	19 25	19 25	26.5 32	8 16	26.5 32	9	30 40	9
	Breaker Size Diameter(*5)			16 35 / 12.7	6.35 / 12.7	9.52 / 15.88	9.52 / 15.88						16
F4 Di1			1 6.3					9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
Ext.Piping	Max.Length	Out-In m		50	50	55	55	100	100	100	100	100	100
<u> </u>	Max.Height		45	30	30	30	30	30	30	30	30	30	30
Guarantee	ed Operating Range (Outdoor)			5 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46
		Heating °C	-11	1 ~ +21	-11 ~ +21	-20 ~ +21	-20 ~ +21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21	-20 ~ 21

<sup>\*1</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or diassessmelb 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.





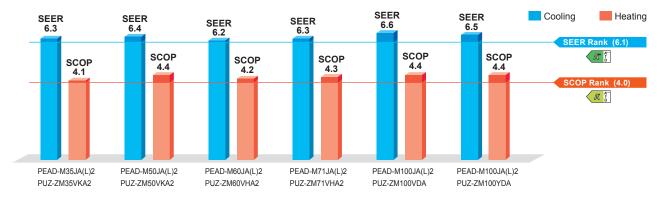
Energy efficiency has been improved. A reduced electricity consumption contributes to a further reduction in operating cost. The thin body with a wide-ranged external static pressure of this series is the perfect answer for the air conditioning needs of buildings with minimum ceiling installation space.

# ErP Lot-10 Compliant, Achieving High Energy Efficiency





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**

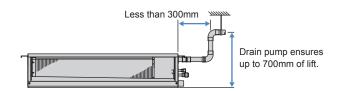
The height of the models from 35-140 has been unified to 250 mm, which makes installation in low ceiling with minimal clearance space possible.

#### 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.



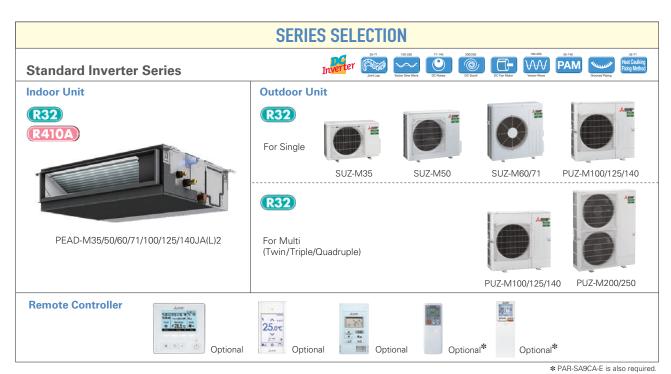
# Connectable to Plasma Quad Connect

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.



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

										Outd	oor U	nit Cap	oacity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			F	or Trip	le	For Qu	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Inverter (PUZ-ZM)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	Ν	1SDD-	50TR2-	-E	MS 50W	DD- /R2-E	MSI	OT-1111	R3-E		DF- R2-E



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

,	W 07 1(2/2 m a00)		00		u									-							
										Outd	oor Ui	nit Cap	acity								
Indoor	Unit Combination				Fo	or Sing	gle						For	Twin			F	or Trip	le	For Qua	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standa	rd Inverter (PUZ-M&SUZ)	35x1	50x1	60x1	71x1	100x1	125x1	140x1	-	-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MSD	D-50T	R2-E	MS 50W	DD- /R2-E	MSI	DT-111	R3-E		DF- R2-E













































Туре			_					Inverter F	leat Pump				
Indoor Un	it			PEAD-M35JA(I 12	PEAD-M50JA(L)2	PFAD-M60.IA(I)2	PFAD-M71,JA(I)2	PEAD-M100.IA(I.)2	PFAD-M100.IA(I.)2	PEAD-M125JA(I) 12	PEAD-M125.JA(I)2	PFAD-M140.JA(I)2	PEAD-M140.JA/I
Outdoor L	Init				PUZ-ZM50VKA2								
Refrigerar	nt(*1)								32				
Power	Source								ower supply				
Supply	Outdoor(V/Phase/Hz)				VKA.VHA:2	30/Single/50				A:230/Single/50	YDA/400/Thre	ee/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)	1		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 consumi	otion (*2)	kWh/a	199	273	342	393	499	499		_		
	SEER(*4)(*5)	51.011	ike en y d	6.3	6.4	6.2	6.3	6.6	6.6				
	022.1	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	14.0	14.0	16.0	16.0
ualing	Joapanity	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)	1.10100		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)		_		
	Social on Support)	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	at operation mile temperature	kW	0.0	0.0	0.0	0.0	0.0	0.0				
	Annual electricity consump	ntion(*2)	kWh/a	816	1202	1459	1585	2445	2445		_	_	
	SCOP(*4)(*5)	511011	KVVII/G	4.1	4.4	4.2	4.3	4.4	4.4				
	555.	Energy efficiency class		A+	A+	A+	A+	A+	A+	_	_	_	
Operating	Current(Max)	zirorgy critoronoy craco	Α	14.2	14.4	20.9	20.9	28.8	10.3	28.8	11.3	32.6	11.6
ndoor	Input [cooling / Heating ]	Rated	kW	0.05	0.07	0.08	0.09	0.14	0.14	0.20	0.20	0.21	0.21
Unit	Operating Current(Max)	riatou	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								
	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		14.5-18.0-23.0	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
	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	Dimensions	H*W*D	mm	630-809-300	630-809-300	943-950-330(+25)	943-950-330(+25)						870-1100-460(+
Unit	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)		А	13	13	19	19	26.5	8	26.5	9	30	9
	Breaker Size		А	16	16	25	25	32	16	32	16	40	16
	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 / 15.8
Ext.Piping	NA I II	Out-In	m	50	50	55	55	100	100	100	100	100	100
Ext.Piping	Max.Length												
Ext.Piping	Max.Height	Out-In	m	30	30	30	30	30	30	30	30	30	30
			m °C	30 -15 ~ +46	30 -15 ~ +46	30 -15 ~ +46	30 -15 ~ +46	-20 ~ 46	30 -20 ~ 46 -20 ~ 21	-20 ~ 46	-20 ~ 46	-20 ~ 46	-20 ~ 46

<sup>|</sup> Heating | °C | -11 ~ +21 | -11 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ +21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 | -20 ~ 21 |



















































Type									leat Pump				
Indoor Uni	t			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 U	nit			SUZ-M35VA	SUZ-M50VA	SUZ-M60VA	SUZ-M71VA	PUZ-M100VKA2	PUZ-M100YKA2	PUZ-M125VKA2	PUZ-M125YKA2	PUZ-M140VKA2	PUZ-M140YKA2
Refrigeran	t(*1)							R	32				
Power	Source							Outdoor po	ower supply				
Supply	Outdoor(V/Phase/Hz)						VA-VI	A:230/Single/5	50, YKA:400/Th	ree/50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
		Min-Max	kW	0.8 - 3.9	1.7 - 5.6	1.6 - 6.3	2.2 - 8.1	4.0 - 10.6	4.0 - 10.6	6.0 - 13.0	6.0 - 13.0	6.1 - 14.1	6.1 - 14.1
	Total Input	Rated	kW	0.923	1.351	1.694	2.028	2.878	2.878	4.019	4.019	4.768	4.768
	EER(*4)			3.90	3.70	3.60	3.50	3.30	3.30	3.01	3.01	2.81	2.81
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	-	_	_	-
	Annual electricity consum	ption (*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 consum	ption (*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+	-	_	_	_
	Current(Max)	,	Α	9.7	14.9	16.7	16.7	22.3	13.8	27.8	12.8	31.4	12.9
Indoor	Input [cooling / Heating ]	,	kW	9.7 0.05	14.9 0.07	16.7 0.08	16.7 0.09	22.3 0.14	13.8 0.14	27.8 0.20	12.8 0.20	31.4 0.21	12.9 0.21
	Input [cooling / Heating ] Operating Current(Max)	Rated	kW A	9.7 0.05 1.16	14.9 0.07 1.35	16.7 0.08 1.85	16.7 0.09 1.9	22.3 0.14 2.25	13.8 0.14 2.25	27.8 0.20 2.34	12.8 0.20 2.34	31.4 0.21 2.63	12.9 0.21 2.63
Indoor	Input [cooling / Heating ] Operating Current(Max) Dimensions	,	kW A mm	9.7 0.05 1.16 250×900×732	14.9 0.07 1.35 250×900×732	16.7 0.08 1.85 250×1100×732	16.7 0.09 1.9 250×1100×732	22.3 0.14 2.25 250×1400×732	13.8 0.14 2.25 250×1400×732	27.8 0.20 2.34 250×1400×732	12.8 0.20 2.34 250×1400×732	31.4 0.21 2.63 250×1600×732	12.9 0.21 2.63 250×1600×732
Indoor	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight	Rated	kW A mm kg	9.7 0.05 1.16 250×900×732 25(24.5)	14.9 0.07 1.35 250×900×732 26.5(25.5)	16.7 0.08 1.85 250×1100×732 29.5(29)	16.7 0.09 1.9 250×1100×732 29.5(29)	22.3 0.14 2.25 250×1400×732 37(36)	13.8 0.14 2.25 250×1400×732 37(36)	27.8 0.20 2.34 250×1400×732 38(37)	12.8 0.20 2.34 250×1400×732 38(37)	31.4 0.21 2.63 250×1600×732 42(41)	12.9 0.21 2.63 250×1600×732 42(41)
Indoor	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi)	Rated	kW A mm kg m³/min	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0	16.7 0.08 1.85 250×1100×732 29.5(29)	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0	27.8 0.20 2.34 250×1400×732 38(37)	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0
Indoor	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*7)</sup>	Rated H*W*D	kW A mm kg m³/min Pa	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70>	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100>-<150>	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-<50>-<70>	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>-<150>	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 <40>-50-<70>	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150>	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0
Indoor	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*7)</sup> Sound Level (Lo-Mid-Hi) (SP)	Rated H*W*D	kW A mm kg m³/min Pa dB(A)	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100>-<150> 27-33-35	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-<50>-<70> 26-32-37	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>-<150> 31-36-39	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 <40>-50-<70> 35-39-41	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150> 34-38-41	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0
Indoor Unit	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(-7)</sup> Sound Level (LO-Mid-Hi) (SPI Sound Level (PWL)	Rated  H*W*D	kW A mm kg m³/min Pa dB(A) dB(A)	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100>-<150> 27-33-35 58	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-<50>-<70> 26-32-37 58	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 ><100><150> 31-36-39 62	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 <40>-50-<70> 35-39-41 66	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150> 34-38-41 66	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66
Indoor Unit	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (PWL) Dimensions	Rated H*W*D	kW A mm kg m³/min Pa dB(A) dB(A) mm	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100>-<150> 27-33-35 58 714-800-285	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-<50>-<70> 26-32-37 58 880-840-330	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>-<150> 31-36-39 62 981-1050-330(+40)	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330(+40)	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981-1050-330(+40)	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 <40>-50-<70> 35-39-41 66 981-1050-330(+40)	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150> 34-38-41 66 981-1050-330(+40)	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330(+40)
Indoor Unit	Input [cooling / Heating] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (PWL) Dimensions Weight	Rated  H*W*D	kW A mm kg m³/min Pa dB(A) dB(A) mm	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285 35	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100>-<150> 27-33-35 58 714-800-285 41	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-<50>-<70> 26-32-37 58 880-840-330 55	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>-<150> 31-36-39 62 981-1050-330(+40) 76	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330(+40) 78	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981-1050-330(+40) 84	12.8 0.20 2.34 250×1400×732 38(37) 28.0·34.0·37.0 <40>-50-<70> 35-39-41 66 981-1050-330(+40) 85	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150> 34-38-41 66 981-1050-330(+40) 84	12.9 0.21 2.63 250×1600×732 42(41) 29.5·35.5·40.0 34-38-41 66 981-1050·330(+40) 85
Indoor Unit	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (PWL) Dimensions	Rated    H*W*D	kW A mm kg m³/min Pa dB(A) dB(A) mm kg m³/min	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285 35 34.3	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100><150> 27-33-35 58 714-800-285 41 45.8	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54 50.1	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-<50>-<70> 26-32-37 58 880-840-330 55 50.1	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>-<150> 31-36-39 62 981-1050-330(+40) 76 79	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330(+40) 78 79	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981-1050/330(+40) 84 86	12.8 0.20 2.34 250×1400×732 38(37) 28.0·34.0·37.0 <40>-50-<70> 35·39-41 66 981·1050·330(+40) 85 86	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150> 34-38-41 66 981-1050-330(+40) 84 86	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330(+40) 85 86
Indoor Unit	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (PWL) Dimensions Weight Air Volume	Rated   H*W*D   L)   H*W*D   Cooling   Heating	kW A mm kg m³/min Pa dB(A) dB(A) mm kg m³/min m³/min	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285 35 34.3 32.7	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100><150> 27-33-35 58 714-800-285 41 45.8 43.7	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54 50.1	16.7 0.09 250×1100×732 29.5(29) 14.5-18.0-23.0 40-<50>-<70> 26-32-37 58 880-840-330 55 50.1 50.1	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>~<150> 31-36-39 62 981·1050·330(+40) 76 79 79	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330(+40) 78 79 79	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981·1050·330(+40) 84 86 92	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34 0-37.0 <40>-50-<70> 35-39-41 66 981·1050·330(+40) 85 86 92	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150> 34-38-41 66 981:1050-330(+40) 84 86 92	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330(+40) 85 86 92
Indoor Unit	Input [cooling / Heating] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (PWL) Dimensions Weight	Rated   H*W*D  L)   H*W*D   Cooling   Heating  Cooling	kW A mm kg m³/min Pa dB(A) mm kg m³/min dB(A) dB(A)	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285 35 34.3 32.7	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100><-(150> 27-33-36 58 714-800-285 41 45.8 43.7	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54 50.1 49	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-<50>-<70> 26-32-37 58 880-840-330 55 50.1 49	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>-<150> 31-36-39 62 981-1050-330(+40) 76 79 79 51	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330(+40) 78 79 79 51	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981-1050-330(+40) 84 86 92 54	12.8 0.20 2.34 250x1400x732 38(37) 28.0-34.0-37.0 40>-50-<70> 35-39-41 66 981:1050-330(+40) 86 86 92 54	31.4 0.21 2.63 250×1600×732 42(41) 29.5·35.5·40.0 ~-100>~-150> 34-38-41 66 981·1050·330(+40) 84 86 92 55	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1060/330(+40) 85 86 92 55
Indoor Unit	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*7)</sup> Sound Level (Lo-Mid-Hi) (SPi Sound Level (PWL) Dimensions Weight Air Volume Sound Level (SPL)	Rated   H*W*D   L)   H*W*D   Cooling   Heating   Cooling   Cooli	kW A mm kg m³/min Pa dB(A) dB(A) mm kg m³/min dB(A) dB(A) dB(A) dB(A) dB(A)	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285 35 34.3 32.7 48	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 ->-(10)-<-150>->-(10)-<-150 27-33-35 58 714-800-285 41 45.8 43.7 48	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54 50.1 50.1 50.1 49 51	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40~50>~70> 26-32-37 58 880-840-330 55 50.1 50.1 49 51	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 ~100~>150~ 31-36-39 62 981-1050-330(+40) 76 79 79 79 51 54	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330(+40) 79 79 79 51 54	27.8 0.20 2.34 250x1400x732 38(37) 28.0-34.0-37.0 35-39-41 66 981-1050/330(+40) 84 86 92 54 56	12.8 0.20 2.34 250x1400x732 38(37) 28.0-34.0-37.0, 40>-50-<70> 35-39-41 66 981-1050-330(+40) 85 86 92 54 56	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330(+40) 84 86 92 55 57	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330(+40) 85 86 92 55
Indoor Unit	Input [cooling / Heating] Operating Current[Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (PWL) Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL)	Rated   H*W*D  L)   H*W*D   Cooling   Heating  Cooling	kW A mm kg m³/min Pa dB(A) dB(A) m³/min dB(A) dB(A) dB(A) dB(A) dB(A)	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285 35 34.3 32.7 48 48 59	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100>-<150> 27-33-35 58 714-800-285 41 45.8 43.7 48 49 64	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54 50.1 50.1 49 51 65	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-<50>-<70> 26-32-37 58 880-840-330 55 50.1 49 49 51 66	22.3 0.14 2.25 250×1400×732 37(36) 23 0-28 0-32.0 -<100>-<150> 31-36-39 62 981-1050-330(+40) 76 79 79 51 54 70	13.8 0.14 2.25 250×1400×732 37(36) 23 0-28 0-32.0 31-36-39 62 981-1050-330(+40) 78 79 79 51 54 70	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981-1050-330(+40) 84 84 99 54 56 72	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34 0-37.0 <40>-50-<70> 35-39-41 66 981-1050-330(+40) 85 86 92 54 56 72	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 <100>-<150> 34-38-41 66 981-1050-330(+40) 84 86 92 55 57 73	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330(+40) 85 86 92 55 57 73
Indoor Unit	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (PWL) Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL) Sound Level (SPL)	Rated   H*W*D   L)   H*W*D   Cooling   Heating   Cooling   Cooli	kW A mm kg m³/min Pa dB(A) dB(A) kg m³/min kg m³/min dB(A) dB(A) dB(A)	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285 35 34.3 32.7 48 48 59 8.5	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -2100>-<150> 27-33-350 41 45.8 43.7 48 49 64 13.5	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5+8.0-21.0 26-32-35 56 880-840-330 54 50.1 50.1 49 51 65 14.8	16.7 0.09 1.9 250x1100x732 29.5(29) 14.5-18.0-23.0 40~50>~<70> 26·32-37 58 880-840-330 55 50.1 50.1 49 51 66 66 14.8	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -100>-150 31-36-39 62 981-1650-330(+40) 76 79 79 79 51 54 70 20	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330(+40) 78 79 79 79 51 54 70 11.5	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981-150-330(+40) 84 86 92 54 56 72 26.5	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 40>-50-<70> 35-39-41 66 981-1050-330(+40) 85 86 92 54 56 72	31.4 0.21 2.63 250x1600x732 42(41) 29.5-35.5-40.0 100>150 34-38-41 66 981-1050-330(+40) 84 86 92 55 57 73 30	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330(+40) 86 96 92 55 57 73 11.5
Indoor Unit  Outdoor Unit	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*7)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (PWL) Dimensions Weight Air Volume Sound Level (SPL) Sound Level (PWL) Operating Current(Max) Breaker Size	Rated   H*W*D	kW A mm kg m³/min Pa dB(A) dB(A) mm kg m³/min dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) dB(A) A A	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285 34.3 32.7 48 48 59 8.5 16	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -2100>-2150> 27-33-35 58 714-800-285 41 45.8 43.7 48 49 64 13.5	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 50.1 50.1 50.1 49 51 65 14.8 20	16.7 0.09 1.9 250×1100×732 29.5(29) 145-18.0-23.0 40~50>~<70> 26-32-37 58 880-840-330 50.1 50.1 49 51 66 14.8 20	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -100>1500 31-36-39 62 981-1050-330(+40) 76 79 79 79 51 54 70 20 32	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-3301+40 78 79 79 79 51 54 70 11.5 16	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981:1050-330(+40) 84 86 92 54 56 72 26.5 32	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 <40>-50-<70> 35-39-41 66 981-1050-330(+40) 85 86 92 54 56 72 11.5	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 <-100><-150> 34-38-41 66 981-1050-330(+40) 84 86 92 55 77 73 30 40	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050/3301+40] 85 86 92 55 57 73 11.5
Indoor Unit  Outdoor Unit	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (FWL) Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL) Sound Level (SPL) Breaker Size Dimensions Weight Weight Dimensions Weight Weight Dimensions Weight Weight Dimensions Weight Weight Weight Dimensions Weight Weight Weight Weight Dimensions Weight Weig	Rated   H*W*D   L1   H*W*D   Cooling   Heating   Cooling   Heating   Cooling   Cooli	kW A mm kg m³/min Pa dB(A) dB(A) mm kg m³/min dB(A) dB(A) adB(A) A A mm	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35<50>~<70 24-29-32 54 550-800-285 34.3 32.7 48 48 48 59 8.5 16 6.35 / 9.52	14.9 0.07 1.35 250×900×735 226.5(25.5) 12.0-14.5-17.0 -<-100><-150><-100><-150><-100><-150><-100><-150><-100><-150><-100><-100><-150><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100><-100	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54 50.1 50.1 49 51 65 14.8 20 6.35/15.88	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40~50>~705 58 880-840-330 55 50.1 50.1 49 51 66 14.8 20 9.52/15.88	22.3 0.14 2.25 250x1400x732 37(36) 23.0-28.0-32.0 -<100>-<150> 62 981-1050-330(+40) 76 79 79 51 54 70 20 32 9.52/15.88	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050/330(+40) 79 79 51 54 70 11.5 16 9.52/15.88	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981:1050-330(+40) 84 86 92 54 56 72 26.5 32 9.52/15.88	12.8 0.20 2.34 250×1400×732 38(37) 28.0·34.0·37.0 40>-50-<70- 66 981-1050-330(+40) 85 86 92 54 56 72 11.5 16 9.52/15.88	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330(+40) 85 86 992 55 57 73 11.5 9.52/15.88
Indoor Unit  Outdoor Unit	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (I.O-Mid-Hi) (SPI Sound Level (PWL) Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL) Sound Level (SPL) Dimensions Sound Level (SPL) Dimensions	Rated   H*W*D	kW A mm kg m³/min Pa dB(A) dB(A) mm kg m³/min dB(A) dB(A) adB(A) dB(A) dB(A) dB(A) dB(A) dB(A) A A mm m	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<50-25 54 550-800-285 36 32.7 48 48 59 8.5 16 6.35 / 9.52 20	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 - (100×-150) 27-33-35 58 714-800-285 41 45.8 43.7 48 49 64 13.5 20 6.35 / 12.7 30	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54 50.1 49 51 65 14.8 20 6.35 / 15.88 30	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-≤50-<-70 26-32-37 58 880-840-330 55 50.1 49 51 66 14.8 20 9.52/15.88	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>-<150-5 31-36-39 62 981-1060-330(+40) 79 79 51 54 70 20 32 9.52/15.88	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330(+40) 79 79 51 54 70 11.5 16 9.52/15.88	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981-1050-330(+40) 84 86 92 54 56 72 26.5 32 9.52/15.88	12.8 0.20 2.34 250×1400×732 38(37) 28.0.34 0-37.0 <40>-50-<70> 35-39-41 66 981-1050-330(+40) 85 86 92 54 56 72 11.5 16 9.52/15.88	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150> 34-38-41 66 981-1650-330(+40) 84 86 92 55 77 73 30 40 9.52/15.88	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330)+40) 85 86 92 55 77 73 11.5 16 9.52 / 15.88
Outdoor Unit  Outdoor Unit  Ext.Piping	Input [cooling / Heating] Operating Current[Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (Lo-Mid-Hi) (SPI Sound Level (PWL) Dimensions Weight Air Volume Sound Level (SPL) Dimensions Weight Max.Height	Rated   H*W*D	kW A mm kg m³/min kg m³/min kg m³/min kg m³/min dB(A) dB(A) dB(A) dB(A) A A mm m m	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<70> 24-29-32 54 550-800-285 35 34.3 32.7 48 48 59 8.5 16 6.35/9.52 20 12	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 -<100>-<150>-<150>-<150>-<150 -<150>-<150 -<150>-<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -<150 -	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54 50.1 50.1 49 51 65 14.8 20 6.35 / 15.88 30 30	16.7 0.09 1.9 250x1100x732 29.5(29) 14.5-18.0-23.0 40-<50>-<70> 56 880-840-330 55 50.1 50.1 49 51 66 14.8 20 9.52/15.88 30 30	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>-<150>-<160>-<160>-<160>-<160 79 981-1050-330(+40) 76 79 51 54 70 20 32 9.52/15.88 55	13.8 0.14 2.25 250x1400x732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330+40) 78 79 51 54 70 11.5 16 9.52 / 15.88 55	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981-1050-330)+40) 84 86 92 54 56 72 26.5 32 9.52 / 15.88 65 30	12.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 <40>-50<-70> 35-39-41 66 981:1050:330(+40) 85 86 92 54 56 72 11.5 16 9.52 / 15.88 65 30	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150> 34-38-41 66 981-1050-330(+40) 84 86 92 55 77 33 30 40 9.52 / 15.88 65 30	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050/330(+40) 85 86 92 557 73 11.5 16 9.52/15.88 65 30
Outdoor Unit  Outdoor Unit  Ext.Piping	Input [cooling / Heating ] Operating Current(Max) Dimensions Weight Air Volume (Lo-Mid-Hi) External Static Pressure <sup>(*)</sup> Sound Level (I.O-Mid-Hi) (SPI Sound Level (PWL) Dimensions Weight Air Volume Sound Level (SPL) Sound Level (SPL) Sound Level (SPL) Dimensions Sound Level (SPL) Dimensions	Rated   H*W*D	kW A mm kg m³/min Pa dB(A) dB(A) mm kg m³/min dB(A) dB(A) adB(A) dB(A) dB(A) dB(A) dB(A) dB(A) A A mm m	9.7 0.05 1.16 250×900×732 25(24.5) 10.0-12.0-14.0 35-<50>-<50-25 54 550-800-285 36 32.7 48 48 59 8.5 16 6.35 / 9.52 20	14.9 0.07 1.35 250×900×732 26.5(25.5) 12.0-14.5-17.0 - (100×-150) 27-33-35 58 714-800-285 41 45.8 43.7 48 49 64 13.5 20 6.35 / 12.7 30	16.7 0.08 1.85 250×1100×732 29.5(29) 14.5-18.0-21.0 26-32-35 56 880-840-330 54 50.1 49 51 65 14.8 20 6.35 / 15.88 30	16.7 0.09 1.9 250×1100×732 29.5(29) 14.5-18.0-23.0 40-≤50-<-70 26-32-37 58 880-840-330 55 50.1 49 51 66 14.8 20 9.52/15.88	22.3 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 -<100>-<150-5 31-36-39 62 981-1060-330(+40) 79 79 51 54 70 20 32 9.52/15.88	13.8 0.14 2.25 250×1400×732 37(36) 23.0-28.0-32.0 31-36-39 62 981-1050-330(+40) 79 79 51 54 70 11.5 16 9.52/15.88	27.8 0.20 2.34 250×1400×732 38(37) 28.0-34.0-37.0 35-39-41 66 981-1050-330(+40) 84 86 92 54 56 72 26.5 32 9.52/15.88	12.8 0.20 2.34 250×1400×732 38(37) 28.0.34 0-37.0 <40>-50-<70> 35-39-41 66 981-1050-330(+40) 85 86 92 54 56 72 11.5 16 9.52/15.88	31.4 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 -<100>-<150> 34-38-41 66 981-1650-330(+40) 84 86 92 55 77 73 30 40 9.52/15.88	12.9 0.21 2.63 250×1600×732 42(41) 29.5-35.5-40.0 34-38-41 66 981-1050-330)+40) 85 86 92 55 77 73 11.5 16 9.52 / 15.88

<sup>\*1</sup> 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; I 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of 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.

# PEA

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.



PFA-M200/250LA2



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

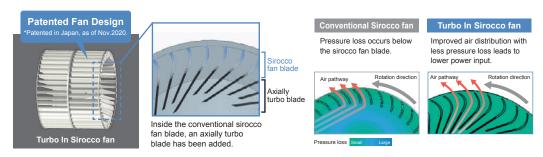
# Improved Energy Efficiency

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



#### Low input with Fan Design

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



# Wide Range of External Static Pressure Allows Flexible Duct Design

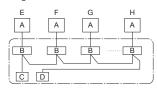
250Pa setting is newly added enabling total of five static pressure level. The ability to select additional static pressure enables long duct and more freedom in design.

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

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

# PAR-41MAA Group Control

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



- Indoor unit Main remote controller
- Subordinate remote controller
  Standard (Refrigerant address = 00)
  Refrigerant address = 01
  Refrigerant address = 02
- Refrigerant address = 15











































	1
	Failure
9	Reca

			Optional	Optional	
уре				Inverter He	
door Unit	•	•		PEA-M200LA2	PEA-M250LA2
tdoor Unit				PUZ-ZM200YKA2	PUZ-ZM250YKA2
frigerant(*1)				R3	2
ower Source	rce			Separate por	wer supply
upply Outde	loor(V/Phase/Hz)			400/Thr	ree/50
ooling Car	pacity	Rated	kW	19.0	22.0
11		Min-Max	kW	9.2 - 22.4	9.9 - 27.0
Tot	tal Input	Rated	kW	5.757	7.213
EEF	R			3.30	3.05
eating Car	pacity	Rated	kW	22.4	27.0
		Min-Max	kW	7.1 - 25.0	7.3 - 31.0
Tot	tal Input	Rated	kW	6.400	7.941
co	)P			3.50	3.40
perating Curre	ent(Max)		А	27.3	27.3
		Rated	kW	0.32	0.48
	rating Current(Max)		A	4.8	4.8
Dime	ensions	H*W*D	mm	470-137	0-1120
Weig			kg	88	
Air V	/olume (Lo-Mid-Hi)	Normal airflow mode	m³/min	42.0-51.0-60.0	50.0-61.0-72.0 (75Pa-200Pa)
				42.0-31.0-00.0	42.0-51.0-60.0 (250Pa)
		High airflow mode	m³/min	50.0-61.0-72.0 (75Pa-200Pa)	58.0-72.0-84.0 (75Pa-150Pa)
			'	42.0-51.0-60.0 (250Pa)	50.0-61.0-72.0 (200Pa)
					42.0-51.0-60.0 (250Pa)
	rnal Static Pressure		Pa	75/(100)/(150	
	nd Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	34.5-39.0-43.0	37.5-42.0-46.0
	nd Level (PWL)		dB(A)	69.0-70.0-70.0	71.0-71.0-72.0
		H*W*D	mm	1338-1050-330(+40)	1338-1050-330(+40)
nit Weig			kg	137	138
Air V		Cooling	m³/min	140	140
		Heating	m³/min	140	140
Soun	nd Level (SPL)	Cooling	dB(A)	59	59
		Heating	dB(A)	62	62
		Cooling	dB(A)	77	77
	rating Current(Max)	<u> </u>	A	22.5	22.5
	ker Size		А	32	32
xt.Piping Diam		Liquid/Gas	mm	9.52 / 25.4	12.7 / 25.4
		Out-In	m	100	100
Max.l	.Height	Out-In	m	30	30
uaranteed Ope	erating Range (Outdoor)	Cooling(*2)	°C	-15 ~ 46	-15 ~ 46
		Heating	°C	-20 ~ 21	-20 ~ 21

<sup>1 8</sup> Fingerant 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.

\*3 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.

































PEA- STANDA	M SERIES RD INVERTER	M-NET W	i-Fi ))	DC Scrol Rare Earth Magnet  Coptonal Optional	DC Fan Motor  Hare connection  Self Diagnosis	Ground Piping Cottonal  Failure Recal	ACO	Auto Restart) Cooling	Optional
Туре						Inverter	Heat Pump		
Indoor Un	it				PEA-M200LA	2		PEA-M250LA2	
Outdoor L	Init				PUZ-M200YKA	.2		PUZ-M250YKA2	
Refrigerar	t <sup>(*1)</sup>						R32		
Power	Source					Separate	power supply		
Supply	Outdoor(V/Phase/Hz)					400/	Three/50		
Cooling	Capacity	Rated	kW		19.0			22.0	

Power	Source			Separate po	wer supply
Supply	Outdoor(V/Phase/Hz)			400/Th	ree/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
	11	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)		А	27.3	27.3
Indoor	Input [cooling / Heating ]	Rated	kW	0.32	0.48
Unit	Operating Current(Max)		A	4.8	4.8
	Dimensions	H*W*D	mm	470-137	0-1120
	Weight		kg	8	3
	Air Volume (Lo-Mid-Hi)	Normal airflow mode	m³/min	42.0-51.0-60.0	50.0-61.0-72.0 (75Pa-200Pa)
				42.0-51.0-00.0	42.0-51.0-60.0 (250Pa)
		High airflow mode	m³/min	50.0-61.0-72.0 (75Pa-200Pa)	58.0-72.0-84.0 (75Pa-150Pa)
					50.0-61.0-72.0 (200Pa)
				42.0-51.0-60.0 (250Pa)	42.0-51.0-60.0 (250Pa)
	External Static Pressure		Pa	75/(100)/(150	
	Sound Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	34.5-39.0-43.0	37.5-42.0-46.0
	Sound Level (PWL)		dB(A)	69.0-70.0-70.0	71.0-71.0-72.0
Outdoor	Dimensions	H*W*D	mm	1338-1050-330(+40)	1338-1050-330(+40)
Unit	Weight		kg	129	138
	Air Volume	Cooling	m³/min	140	140
		Heating	m³/min	140	140
	Sound Level (SPL)	Cooling	dB(A)	58	59
		Heating	dB(A)	60	62
	Sound Level (PWL)	Cooling	dB(A)	78	77
	Operating Current(Max)		A	22.5	22.5
	Breaker Size		Α	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
Guarante	ed Operating Range (Outdoor)	Cooling(*2)	°C	-15 ~ 46	-15 ~ 46
		Heating	°C	-20 ~ 21	-20 ~ 21

<sup>\*1</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R32 is 675 in the IPCC 4th Assessment Report.
\*3 Joint pipe is required depending on installed refrigerant pipes, outdoor units and indoor units.





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)

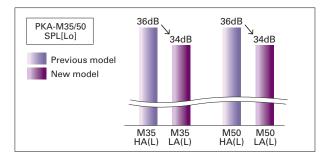
A sharp and simple form that combines beauty and function. The simple square design harmonizes beautifully with the straight lines created by the intersection of the walls, floor and ceiling of the space, leading to a better quality of space. Also adopted a new white body color. It will make your life 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.

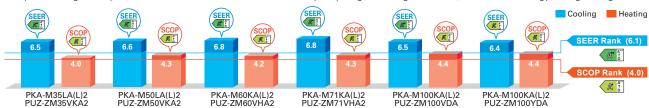


# Main Functions of new Wireless Remote Controller

- •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++

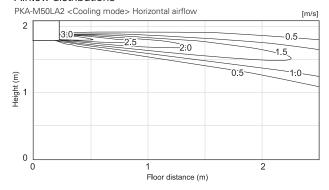
Highly efficient indoor unit heat exchangers and newly designed power inverters (PUZ-ZM) contribute to an amazing reduction in electricity consumption throughout a year, and have resulted in models in the full-capacity range attaining the rank A, A+ and A++ energy savings rating.

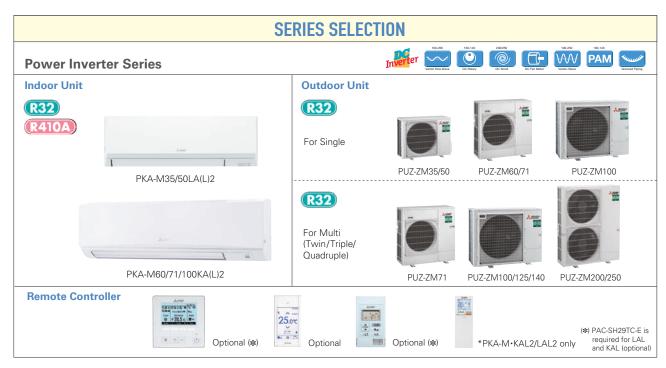


#### Airflow Control – Horizontal Airflow – (M35-50)

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.

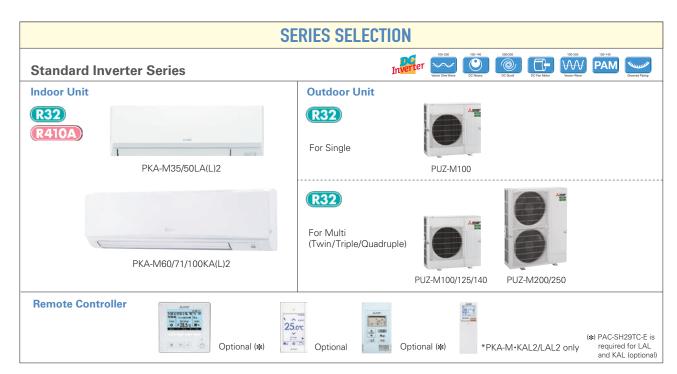
#### Airflow distributions





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

										Outd	oor Uı	nit Cap	acity								
Indoor	Unit Combination				Fo	or Sing	jle						For	Twin			F	or Trip	le	For Qua	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUZ-ZM)		50x1	60x1	71x1	100x1	-	-	-	-	35x2	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	N	ISDD-	0TR2	-E	MSDD- 50WR2-E	-	MSI	OT-111	R3-E		DF- R2-E



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

										Outd	oor U	nit Cap	pacity								
Indoor	Unit Combination				Fo	or Sing	le						For	Twin			F	orTrip	le	For Qu	adruple
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standa	rd Inverter (PUZ-M)	-	-	-	-	100x1	-	-	-	-	-	50x2	60x2	71x2	100x2	-	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	MSD	D-50T	R2-E	MSDD- 50WR2-E	-	MSI	DT-111	R3-E		SDF- R2-E















































)	M-NET
Ш	connection

Optional			Optional					
Vi-Fi ı)) nterface	СОМРО	Cleaning-free,	Wiring Reuse	Drain Lift Up	Pump Down	Flare connection	Self Diagnosis	Failure Recall

Туре						Inverter F	leat 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)						R	32	•	
Power Source						Outdoor po	ower supply		
Supply Outdoo	r(V/Phase/Hz)				VKA•VHA:2	30/Single/50		VDA:230/Single/50	, YDA/400/Three/50
Cooling Capac	city	Rated	kW	3.6	4.6	6.1	7.1	9.5	9.5
- 11		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
	n load		kW	3.6	4.6	6.1	7.1	9.5	9.5
	al electricity consump	tion (*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 Capac	city	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
Desig	n load		kW	2.4	3.3	4.4	4.7	7.8	7.8
Decla	red 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)
	up heating capacity		kW	0.0	0.0	0.0	0.0	0.0	0.0
	al electricity consump	tion (*2)	kWh/a	829	1074	1464	1530	2480	2481
SCOP				4.0	4.3	4.2	4.3	4.4	4.4
		Energy efficiency class		A+	A+	A+	A+	A+	A+
Operating Current			Α	13.4	13.4	19.4	19.4	27.1	8.6
		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
	ng Current(Max)		Α	0.35	0.35	0.43	0.43	0.57	0.57
Dimens	ions	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
	ıme (Lo-Mi2-Mi1-Hi)	(05)	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
	Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	34-37-40-43	34-37-40-43	39-42-45 64	39-42-45 64	41-45-49 65	41-45-49 65
Outdoor Dimens	Level (PWL)	H*W*D	dB(A)	60 630-809-300	60 630-809-300				
Unit Weight		IH-AA-D	mm			943-950-330(+25)	943-950-330(+25)	870-1100-460(+45)	870-1100-460(+45)
Air Volu		Cooling	kg m³/min	46	46	67	67	107	114
All Voic	iiie	Heating	m³/min	45 45	45 45	55 55	55 55	80 58	80 58
Cound I	Level (SPL)	Cooling	dB(A)	45	45	47	47	44	44
Sound	Level (SPL)	Heating	dB(A)	44	44	47	47	44	44
C d I	Level (PWL)	Cooling	dB(A)	46 65	46 65	67	67		
		Cooling	A A	13	13		19	63	63
Operati	ng Current(Max)		A	13 16	13	19 25	19	26.5 32	8 16
Ext.Piping Diamete		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.Lei		Out-In	m	50	50	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	
Max.He		Out-In	m	30	30	30	30	30	100
		Cooling(*3)	°C	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-20 ~ 46	-20 ~ 46
Juaranteed Opera	illing harrye (Outdoor)		°C	-15 ~ +46 -11 ~ +21	-15 ~ +46 -11 ~ +21	-15 ~ +46 -20 ~ +21	-15 ~ +46 -20 ~ +21	-20 ~ 46 -20 ~ 21	-20 ~ 46 -20 ~ 21
		Heating	_	-11 ~ +21 I warming notential (GW					

<sup>\*1</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of 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.

















































_	
Self	Failure Recall

уре				Inverter H						
door Unit				PKA-M10						
ıtdoor Un				PUZ-M100VKA2	PUZ-M100YKA2					
efrigerant <sup>(</sup>	1)			R3	32					
	Source			Outdoor po						
	Outdoor(V/Phase/Hz)			VKA • VHA: 230/Single/	50, YKA:400/Three/50					
ooling	Capacity		kW	9.5	9.5					
			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 consump	otion (*2)	kWh/a	573	573					
	SEER(*4)			5.8	5.8					
		Energy efficiency class		A+	A+					
ating	Capacity		kW	11.2	11.2					
			kW	2.8 - 12.5	2.8 - 12.5					
	Total Input		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		4.5 (-15°C)	4.5 (-15°C)					
	Back up heating capacity		kW	2.0	2.0					
	Annual electricity consump		kWh/a	2780	2780					
	SCOP(*4)		KTTIJU	4.0	4.0					
		Energy efficiency class		4.0 A+	4:0 A+					
erating (	Current(Max)		Α	20.6	12.1					
	nput [cooling / Heating ]		kW	0.08 / 0.07	0.08 / 0.07					
	Operating Current(Max)	ratod	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					
1	Sound Level (Lo-Mi2-Mi1-Hi)		dB(A)	41-45-49	41-45-49					
	Sound Level (PWL)		dB(A)	65	65					
ıtdoor	Dimensions	H*W*D	mm	981-1050-330 (+40)	981-1050-330(+40)					
nit I	Weight		kg	76	78					
1	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					
1	Sound Level (PWL)	Cooling	dB(A)	70	70					
	Operating Current(Max)		Α	20.0	11.5					
	Breaker Size		A	32	16					
	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					
	d Operating Range (Outdoor)	Cooling(*3)	°C	-15 ~ +46	-15 ~ +46					
		Heating	°C	-15 ~ +21	-15 ~ +21					

<sup>\*1</sup> 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<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of 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-M35/50/60/71/100/125/140KA2
oth high- and low-ceiling acceptional energy-saving conditioning needs.

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

# Stylish Indoor Unit Design

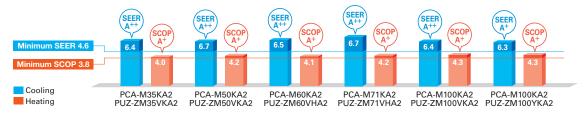
A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.



PCA-KA

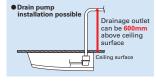
## ErP Lot 10 Compliant with High Energy-efficiency Achieving SEER/SCOP Rank A, A+ and A++

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.



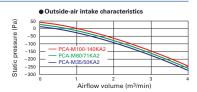
# Optional Drain Pump for Full-capacity Models

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



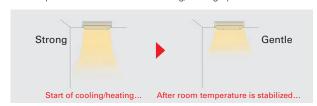
#### Outside-air Intake

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.

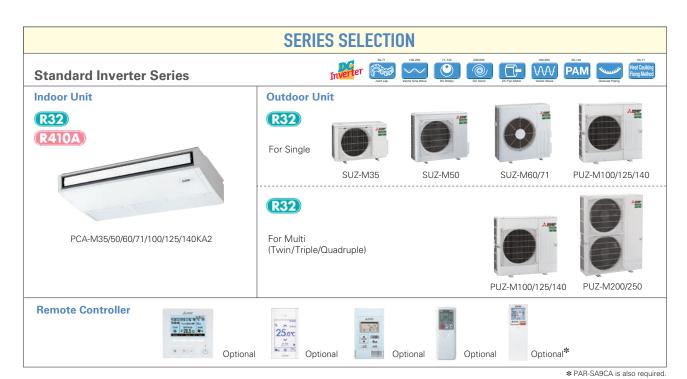
Capacity	High ceiling	Standard ceiling	Low ceiling
35	3.5m	2.7m	2.5m
50	3.5m	2.7m	2.5m
60	3.5m	2.7m	2.5m
71	3.5m	2.7m	2.5m
100	4.2m	3.0m	2.6m
125	4.2m	3.0m	2.6m
140	4.2m	3.0m	2.6m



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

\* PAR-SA9CA is also required

		Outdoor Unit Capacity																			
Indoor Unit Combination					Fo	or Sing	gle				ForTwin ForTriple F					For Qu	adruple				
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Power	Power Inverter (PUZ-ZM)		50x1	60x1	71x1	100x1	125x1	140x1	-	-	35x2	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
Distribution Pipe		-	-	-	-	-	-	-	-	-	N			MS 50W	DD- R2-E	MSDT-111R3-E		MSDF- 1111R2-E			



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

			Outdoor Unit Capacity																		
Indoor	r Unit Combination				Fo	or Sing	jle									For Qua	adruple				
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standa	Standard Inverter (PUZ-M&SUZ)		50x1	60x1	71x1	100x1	125x1	140x1		-	-	50x2	60x2	71x2	100x2	125x2	50x3	60x3	71x3	50x4	60x4
	Distribution Pipe		-	-	-	-	_	_	-	-	_	MSD	D-50T	R2-E	MSI 50W	DD- R2-E	MSI	OT-1111	R3-E	MS 1111	

# PCA-M KA SERIES















Rotation Group M-NET Wi-Fi) COMPO MXZ Wiring Drain Pump Fere Failure













POWER	NVERTER	Limit Back-up	Optional	Control	nection Interfa		connection	pipe reuse Reu	Lift Up	Down	connection	Self Reca	áII
Туре								Inverter F	leat Pump				
Indoor Uni	t			PCA-M35KA2	PCA-M50KA2	PCA-M60KA2	PCA-M71KA2	PCA-M100KA2	PCA-M100KA2	PCA-M125KA2	PCA-M125KA2	PCA-M140KA2	PCA-M140KA2
Outdoor U	nit				PUZ-ZM50VKA2			PUZ-ZM100VKA2					
Refrigeran							1		32				
Power	Source								ower supply				
Supply	Outdoor(V/Phase/Hz)						\/KA•\	/HA:230/Single		hree/50			
Cooling	Capacity	Rated	kW	3.6	5.0	6.1	7.1	9.5	9.5	12.5	12.5	13.4	13.4
		Min-Max	kW	1.6 - 4.5	2.3 - 5.6	2.7 - 6.7	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	0.829	1.250	1.521	1.829	2.375	2.375	3.846	3.846	3.941	3.941
	EER	riatou	1000	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	- 0.20	- 0.20	- 0.40	0.40
	Annual electricity consum	untion(*2)	kWh/a	197	260	328	371	516	527		_		<del></del>
	SEER(*4)	ption	KVVII/a	6.4	6.7	6.5	6.7	6.4	6.3				<del></del>
	OLLII.	Energy efficiency class		0.4 A++	0.7 A++	0.5 A++	A++	0.4 A++	0.5 A++	_		_	<del></del>
Heating	Capacity	Rated	kW	4.1	5.5	7.0	8.0	11.2	11.2	14.0	14.0	16.0	16.0
···outing	Supusity	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	Italeu	KVV	4.02	4.04	4.01	3.71	3.71	3.71	3.54	3.54	3.61	3.61
	Design load		lkW	2.4	3.8	4.4	4.7	7.8	7.8	- 3.54	- 3.54	3.01	3.01
	Declared Capacity	at reference design temperature	_	2.4 (-10°C)	3.8 (-10°C)	4.4 (-10°C)	4.7 (-10°C)	7.8 (-10°C)	7.8 (-10°C)	_	_		-
	Decialed Capacity	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)	_	_		
			kW	2.4 (-10°C) 2.2 (-11°C)	3.8 (-10°C) 3.7 (-11°C)	2.8 (-20°C)	3.4 (-20°C)	7.8 (-10°C) 5.8 (-20°C)	7.8 (-10°C) 5.8 (-20°C)	_			<del>-</del>
	Dark on brasing and site.	at operation limit temperature		0.0	0.0	0.0	0.0	0.0	0.0				
	Back up heating capacity kW Annual electricity consumption (*2) kWh			838	1266	1501	1567	2536	2537				
	SCOP(*4)	iption · -	kWh/a	4.0	4.2	4.1	4.2	4.3	4.3		-	-	_
	SCOP	Energy efficiency class		4.0 A+	4.2 A+	4.1 A+	4.2 A+		4.3 A+	_	_	_	-
O	Current(Max)	Energy eniciency class	ĪΑ	13.3	13.4	19.4	19.4	A+ 20.7	8.7	27.3	9.8	30.9	12.7
	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)	nated	A	0.04 / 0.04	0.05 / 0.05	0.06 / 0.06	0.06 / 0.06	0.0970.09	0.09 / 0.09	0.11/0.11	0.11/0.11	0.14 / 0.14	0.14 / 0.14
JIIIL	Dimensions	H*W*D	mm		60-680		280-680	0.05	0.05	230-16		0.90	0.90
	Weight	III W B	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		22-24-26-28	22-24-26-28	23-25-27-29	23-25-27-29	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)	, (0. 2)	dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor	Dimensions	H*W*D	mm	630-809-300			943-950-330(+25				1338-1050-330(+40)		
Unit	Weight		kg	46	46	67	67	105	111	105	114	105	118
Jnit D W A S S Outdoor D Jnit W	Air Volume	Cooling	m³/min		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)	Tooming .	Δ	13	13	19	19	20	8	26.5	9	30	11.8
	Breaker Size		Δ	16	16	25	25	32	16	32	16	40	16
Evt Pinina	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
LAC.F IPING	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
_	IVIAA.I ICIGIIL	Out-iii	1111	30	30	30	30	30	30	30	30	30	30

Cooling<sup>(\*3)</sup> 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; I leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 550. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 550 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. 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.



Guaranteed Operating Range (Outdoor)





























































PCA-M	<b>KA</b> SERIES
STANDARD IN	/ERTER

Ampere Limit	Rotat Back
	Option





























Туре								Invertor F	leat Pump				
Indoor Uni	<del>!</del>			DCA MOEKAO	DCA MEDVAS	DCA MEONAS	DCA M71KA2			DCA M12EVA2	DCA M12EVA2	PCA-M140KA2	DCA MIMORAS
Outdoor U					SUZ-M50VA							PUZ-M140VKA2	
Refrigeran				SUZ-IVI35VA	SUZ-IVISUVA	SUZ-IVIOUVA	SUZ-IVI/ IVA		32	PUZ-IVITZ5VKAZ	PUZ-IVITZ5TKAZ	PUZ-IVI 14UV NAZ	PUZ-IVI 14UT NAZ
Power	Source								ower supply				
	Outdoor(V/Phase/Hz)						\/A \/	KA:230/Sinale/	ower supply	/50			
Supply		Rated	kW	0.0	5.0	0.4					10.1	10.4	40.4
Cooling	Capacity			3.6	5.0	6.1	7.1	9.5	9.5	12.1	12.1	13.4	13.4
	T		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		1	4.00	3.30	3.70	3.60	3.23	3.23	3.01	3.01	2.50	2.50
	Design load		kW	3.6	5.0	6.1	7.1	9.5	9.5	_	_	-	-
	Annual electricity consump	otion (*2)	kWh/a	198	291	333	381	553	553	-	-	-	-
	SEER (*4)			6.3	6.0	6.4	6.5	6.0	6.0	_	_	-	-
		Energy efficiency class		A++	A+	A++	A++	A+	A+	_	_	_	_
Heating	Capacity		kW	4.1	6.0	7.0	8.0	11.2	11.2	13.5	13.5	15.0	15.0
			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		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	-	-	-	-
		Innual electricity consumption <sup>(*2)</sup> kV		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+	-	-	-	_
	Current(Max)		Α	8.8	13.9	15.2	15.2	20.7	12.2	27.3	12.3	30.9	12.4
Indoor	Input [cooling / Heating ]	Rated	kW	0.04 / 0.04	0.05 / 0.05	0.06 / 0.06	0.06 / 0.06	0.09 / 0.09	0.09 / 0.09	0.11 / 0.11	0.11 / 0.11	0.14 / 0.14	0.14 / 0.14
Unit	Operating Current(Max)		A	0.29	0.37	0.39	0.42	0.65	0.65	0.76	0.76	0.90	0.90
	Dimensions	H*W*D	mm		60-680		80-680			230-16			
	Weight		kg	25	26	32	32	37	37	38	38	40	40
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min		10-11-13-15	15-16-17-19	16-17-18-20	22-24-26-28	22-24-26-28	23-25-27-29		24-26-29-32	24-26-29-32
	Sound Level (Lo-Mi2-Mi1-Hi)		dB(A)	31-33-36-39	32-34-37-40	33-35-37-40	35-37-39-41	37-39-41-43		39-41-43-45		41-43-45-48	41-43-45-48
	Sound Level (PWL)		dB(A)	60	60	60	62	63	63	65	65	68	68
Outdoor	Dimensions	H*W*D	mm		714-800-285	880-840-330						981-1050-330(+40)	
Unit	Weight	lo "	kg .	35	41	54	55	76	78	84	85	84	85
	Air Volume		m³/min	34.3	45.8	50.1	50.1	79	79	86	86	86	86
	0 11 1(001)		m³/min	32.7	43.7	50.1	50.1	79	79	92	92	92	92
	Sound Level (SPL)		dB(A)	48	48	49	49	51	51	54	54	55	55
			dB(A)	48	49	51	51	54	54	56	56	57	57
	Sound Level (PWL)		dB(A)	59	64	65	66	70	70	72	72	73	73
	Operating Current(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
	Max.Length		m	20	30	30	30	55	55	65	65	65	65
	Max.Height	Out-In	m	12	30	30	30	30	30	30	30	30	30
Guarante	ed Operating Range (Outdoor)	Cooling(*3)	°C	-10 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46	-15 ~ +46
		Heating	°C	-10 ~ +24	-10 ~ +24	-10 ~ +24	-10 ~ +24	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21	-15 ~ +21

<sup>|</sup> Teating | C | -10 - +24 | -10 - +24 | -10 - +24 | -10 - +24 | -10 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 - +21 | -15 | -15 | -15 | -15 | -15 | -15 | -1



# Tough on Oily Smoke

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

#### High-performance Oil Mist Filter

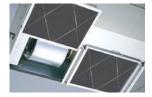
A high-performance heavy-duty oil mist filter is included as standard equipment. The filtering system is more efficient than conventional filters, thereby effectively reducing the oily smoke entering the air conditioner. The filter is disposable, thereby enabling trouble-free cleaning and maintenance

#### Oil Mist Filter Cleaning

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







Pull the handle to easily slide the filter out

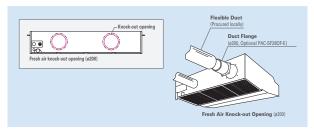
# Easy Maintenance – Even for Cleaning the Fan

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



#### Fresh Outside-air Intake (Option)

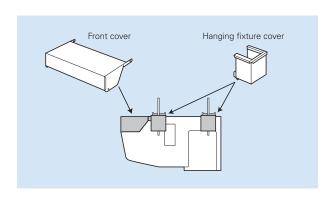
There is a knock-out opening on the rear panel of the unit that can be used to bring fresh air into the unit. This helps to improve ventilation and make the kitchen comfortable.



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

# Cosmetic Front and Hanging Fixture Covers (Option)

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





 $\boldsymbol{*}$  PAR-SA9CA is also required.

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

										Outd	oor Ui	nit Cap	pacity								
Indo	Indoor Unit Combination		For Single										For	Twin			ForTriple			For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Pow	Power Inverter (PUZ-ZM)		-	-	71x1	-	-	-	-	-	-	-	-	71x2	-	-	-	-	71x3	-	-
	Distribution Pipe	-	_	_	-	-	-	_	_	_	_	_	-	MSDD- 50TR2-E	_	_	-	_	MSDT- 111R3-E	-	_



\* PAR-SA9CA is also required.

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

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































Type				Inverter Heat Pump
ndoor Unit	†			PCA-M71HA2
utdoor U				PUZ-7W71/MA2
efrigerant				F02-2M71VINZ 832
	Source			Outdoor power supply
	Outdoor(V/Phase/Hz)			230/Single/50
		ID	11147	
ooling	Capacity	Rated Min-Max	kW	7.1
	T		kW	3.3 - 8.1
	Total Input	Rated	kW	2.028
	EER			3.50
	Design load		kW	7.1
	Annual electricity consump	otion(*2)	kWh/a	443
	SEER(*4)			5.6
		Energy efficiency class		A+
eating	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 tem		4.7 (-10°C)
		at bivalent temperatur	e kW	4.7 (-10°C)
		at operation limit temp	perature kW	3.4 (-20°C)
	Back up heating capacity		kW	0.0
	Annual electricity consumption (*2) kWh/a		kWh/a	1684
	SCOP(*4)			3.9
		Energy efficiency class	ss	A
perating	Current(Max)	, ,	A	19.4
	Input [cooling / Heating ]	Rated	kW	0.10 / 0.10
nit	Operating Current(Max)		A	0.43
	Dimensions	H*W*D	mm	280-1136-650
	Weight	•	kg	42
	Air Volume (Lo-Mi2-Mi1-Hi)		m³/min	16-18
	Sound Level (Lo-Mi2-Mi1-Hi)	(SPL)	dB(A)	37-39
	Sound Level (PWL)		dB(A)	57
ıtdoor	Dimensions	H*W*D	mm	943-950-330(+25)
nit	Weight		kg	67
	Air Volume	Cooling	m³/min	55
		Heating	m³/min	55
	Sound Level (SPL)	Cooling	dB(A)	47
		Heating	dB(A)	49
	Sound Level (PWL)	Cooling	dB(A)	67
	Operating Current(Max)	1	Α	19
	Breaker Size		A	25
	Diameter(*5)	Liquid/Gas	mm	9.52 / 15.88
	Max.Length	Out-In	m	55 55
	Max.Height	Out-In	m	30
	ed Operating Range (Outdoor)	Cooling(*3)	°C	-15 ~ +46
uarantee	operating hange (Outdoor)	Heating	°C	-15 ~ +46 -20 ~ +21

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

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

\*3 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.







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.

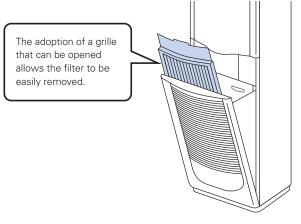
# A slim design the fits neatly into any space

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





# Equipped with a long-life filter as standard



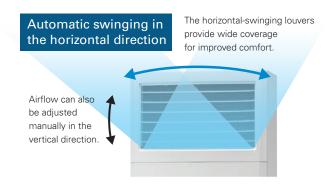
#### Built-in MA smart remote controller

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



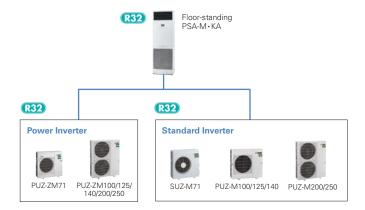
# A wide airflow range with horizontal swinging

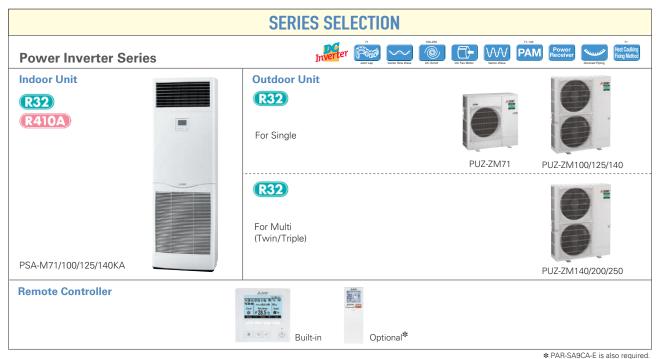
The horizontal swinging function can be turned on or off via the remote controller to deliver comfort over a wider area.



# 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.

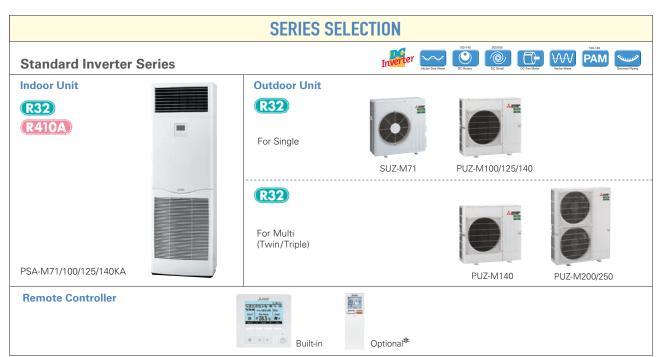




PSA-M Indoor Unit Combinations Indoor unit combinations shown below are possible.

\* PAR-SA9CA-E is also required

										Outd	oor Uı	nit Cap	acity								
Indoor Unit Combination		For Single											For	Twin			F	or Trip	le	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-5	0WR2-E	-	-	MSDT -111R3-E	-	-



 $\textbf{PSA-M Indoor Unit Combinations} \quad \textbf{Indoor unit combinations shown below are possible}.$ 

\* PAR-SA9CA-E is also required.

										Outd	oor Ui	nit Cap	acity								
Indoor	Indoor Unit Combination		For Single										For	Twin			F	or Trip	le	For Quadruple	
		35	50	60	71	100	125	140	200	250	71	100	125	140	200	250	140	200	250	200	250
Standa	Standard Inverter (PUZ-M)		-	-	71x1	100x1	125x1	140x1	-	-	-	-	-	71x2	100x2	125x2	-	-	71x3	-	_
	Distribution Pipe	-	-	-	-	-	-	-	-	-	-	-	-	MSDD -50TR2-E	MSDD-5	50WR2-E	-	-	MSDT -111R3-E	-	_







































		Optional								
Туре							Inverter Heat Pum	)		
Indoor Unit				PSA-M71KA	PSA-M100KA	PSA-M100KA	PSA-M125KA	PSA-M125KA	PSA-M140KA	PSA-M140KA
Outdoor U	nit			PUZ-ZM71VHA2	PUZ-ZM100VKA2	PUZ-ZM100YKA2	PUZ-ZM125VKA2	PUZ-ZM125YKA2	PUZ-ZM140VKA2	PUZ-ZM140YKA2
Refrigerant	(*1)				•		R32	•		•
Power	Source					(	Outdoor power suppl	V		
Supply	Outdoor(V/Phase/Hz)					VKA•VHA:	230/Single/50, YKA:4	00/Three/50		
Cooling	Capacity	Rated	kW	7.1	9.5	9.5	12.5	12.5	13.4	13.4
_		Min-Max	kW	3.3 - 8.1	4.9 - 11.4	4.9 - 11.4	5.5 - 14.0	5.5 - 14.0	6.2 - 15.0	6.2 - 15.0
	Total Input	Rated	kW	1.888	2.493	2.493	3.955	3.955	3.976	3.976
	EER	•		3.76	3.81	3.81	3.16	3.16	3.37	3.37
	Design load		kW	7.1	9.5	9.5	_	_	_	_
	Annual electricity consump	ption(*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	1	kW	0.0	0.0	0.0	_	_	_	_
	Annual electricity consump	otion(*2)	kWh/a	1636	2658	2659	_	_	_	_
	SCOP(*4)			4.0	4.1	4.1	_	_	_	_
		Energy efficiency class		A+	A+	A+	_	_	_	_
Operating	Current(Max)	, , , , , , , , , , , , , , , , , , , ,	Α	19.4	20.7	8.7	27.2	9.7	30.7	12.5
Indoor	Input [cooling / Heating ]	Rated	kW	0.06 / 0.06	0.11 / 0.11	0.11 / 0.11	0.11 / 0.11	0.11 / 0.11	0.11 / 0.11	0.11 / 0.11
Unit	Operating Current(Max)		Α	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	Dimensions	H*W*D	mm			1338-1050-330(+40)				
Unit	Weight	1-	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		Α	25	32	16	32	16	40	16
Ext.Piping	Diameter(*5)	Liquid/Gas	mm	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88	9.52 / 15.88
	Max.Length	Out-In	m	55	100	100	100	100	100	100
	Max.Height	Out-In	m	30	30	30	30	30	30	30
Guarantee	ed Operating Range (Outdoor)	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

<sup>\*1</sup> Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 times higher than 1 kg of CO<sub>2</sub>, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional. The GWP of R410A is 2088 in the IPCC 4th Assessment Report.

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

\*3 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.



















































ump	Flare connection	Self	Failur
own		Diagnosis	Recal

Type							Inverter Heat Pum	)		
Indoor Un	it			PSA-M71KA	PSA-M100KA	PSA-M100KA	PSA-M125KA	PSA-M125KA	PSA-M140KA	PSA-M140KA
Outdoor U	Jnit			SUZ-M71VA	PUZ-M100VKA2	PUZ-M100YKA2	PUZ-M125VKA2	PUZ-M125YKA2	PUZ-M140VKA2	PUZ-M140YKA2
Refrigerar	nt(*1)						R32			
Power	Source						Outdoor power suppl	У		
Supply	Outdoor(V/Phase/Hz)					VA, VKA:2	30/Single/50, YKA:40	0/Three/50		
Cooling	Capacity	Rated	kW	7.1	9.4	9.4	12.1	12.1	13.6	13.6
_		Min-Max	kW	2.2 - 8.1	3.7 - 10.6	3.7 - 10.6	5.6 - 13.0	5.6 - 13.0	5.8 - 13.7	5.8 - 13.7
	Total Input	Rated	kW	1.972	2.686	2.686	4.481	4.481	5.037	5.037
	EER	•		3.60	3.50	3.50	2.70	2.70	2.70	2.70
	Design load		kW	7.1	9.4	9.4	_	-	_	_
	Annual electricity consump	otion(*2)	kWh/a	394	591	591	_		_	_
	SEER(*4)			6.3	5.5	5.5	_		_	_
		Energy efficiency class		A++	A	A	_	-	_	_
Heating	Capacity	Rated	kW	8.0	11.2	11.2	13.5	13.5	15.0	15.0
		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)	,	А	15.2	20.7	12.2	27.2	12.2	30.7	12.2
Indoor	Input [cooling / Heating ]	Rated	kW	0.06 / 0.06	0.11 / 0.11	0.11 / 0.11	0.11 / 0.11	0.11 / 0.11	0.11 / 0.11	0.11 / 0.11
Unit	Operating Current(Max)	•	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	Dimensions	H*W*D	mm	880-840-330		981-1050-330(+40)	981-1050-330(+40)			
Unit	Weight	1-	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		А	20	32	16	32	16	40	16
Ext.Pipin	g 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
Guarante	ed 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

<sup>|</sup> Heating | If-eating | If-eat















# **PLA-SM** SERIES

# **SERIES SELECTION**

#### **Indoor Unit**



PLA-SM71/100/125/140EA

#### **Outdoor Unit**



SUZ-SM71VA



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

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

Туре						Inv	erter Heat Pump			
Indoor Un	it			PLA-SM71EA	PLA-SI	V100EA		И125EA	PLA-SI	И140EA
Outdoor U				SUZ-SM71VA	PUZ-SM100VKA		PUZ-SM125VKA			PUZ-SM140YKA
Refrigerar				OOZ GIVIT TV/	1 02 GW1100V1V1	1 02 01/11001101	B32(*1)	1 02 0W12011VV	1 02 01111401101	1 02 0111401101
Power	Source					Out	door power supply			
Supply	Outdoor (V / Phase / Hz )						Single / 50, YKA:400	/ Three / 50		
	,	Rated	kW	7,1	9,5	9,5		2,1	1:	3,4
	Capacity	Min-Max	kW	2,2-8,1	4,0-10,6	4,0-10,6		13,0	5.8-	
	Total Input	Rated	kW	1,97	2.79	2.79	4,			13
	EER	Tidiod	1000	3,6	3,4	3,4		,9		61
Cooling	EEL Rank			-	3,4			,9 -	2,	01
Cooming	Design load		kW	7.1	9.5	9.5		2.1	11	3.4
	Annual electricity const	umntion (*0)	kWh/a	410	9,5 554	9,5 554		-	<u> </u>	-
	SEER	umption ( 2)	KVVII/a	6	6	6				-
	Energy efficiency class				A+	A+			-	-
	Energy eniciency class	Rated	kW	A+ 8	11,2	11,2				
	Capacity	Min-Max	kW	2,0-10,2		2,8-12,5		3,5		15,8
					2,8-12,5		4,1-			
	Total Input COP	Rated	kW	2,28	3,1	3,1	3,			54
	EEL Rank			3,5	3,61	3,61	3,			,3
			1347	-	-	-				-
Heating	Design load	T	kW	5,8	8	8		,5	_	,4
(Average Season)		at reference design temperature	kW	5,2 (-10°C)	6,0 (-10°C)	6,0 (-10°C)	8,5 (-			10°C)
Season	Declared Capacity	at bivalent temperature	kW	5,2 (-7°C)	7,0 (-7°C)	7,0 (-7°C)	8,5 (-			10°C)
		at operation limit temperature	kW	5,2 (-10°C)	4,5 (-15°C)	4,5 (-15°C)	6,0 (-			15°C)
	Back up heating capaci		kW	0,6	2	2		)		0
	Annual electricity consu	kWh/a	2066	2482	2482		-		-	
	SCOP			3,9	4,5	4,5		-		-
	Energy efficiency class			A	A+	A+		- T		-
Operatin	g Current (Max)		A	15,1	20,5	12	27,2	12,2	30,7	12,2
	Input (cooling/heating)	Rated	kW	0,04	0,07	0,07	0,1	0,1	0,1	0,1
	Operating Current (Max		Α	0,27	0,46	0,46	0,66	0,66	0,66	0,66
Indoor	Dimensions <panel></panel>	HxWxD	mm	258x840x840<40x950x950>			298x840x840-			
Unit	Weight <panel></panel>		kg	21<5>		<5>			<5>	
	Air Volume (Lo-Mid-Hi)		m³/min	14-17-19-21		-26-29	21-25			-29-32
	Sound Level (Lo-Mid-Hi	) (SPL)	dB(A)	28-30-32-34		-37-40		-41-44		-42-44
	Sound Level (PWL)		dB(A)	56	6	31		5		5
	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
Outdoor		Heating	m³/min	50,1	79	79	92	92	92	92
Unit	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.	Diameter	Liquid/Gas	mm				9,52 / 15,88			
Piping	Max. Length	Out-In	m		30		L		40	
	Max. Height	Out-In	m				30			
Guarant	eed Operating Range	Cooling	°C				-15 ~ +46			
(Outdoor)		Heating	°C	-10 ~ +24			-15 -	+21		
Refriger	ant/GWP				1		R32/675(*4)			
		Moidat	ka	1.45	0.4	0.4		2.0	2.0	0.0
Pre-Cha	rged quantity	Weight	kg	1,45	3,1	3,1	3,6	3,6	3,6	3,6
		CO <sub>2</sub> equivalent	t	0,98	2,09	2,09	2,43	2,43	2,43	2,43
	11	Weight	kg	2,37	4,1	4,1	5	5	5	5
wax add	led quantity	CO., equivalent	t	1.6	2.77	2.77	3,38	3.38	3.38	3.38
		2 - <del>1</del>		.,,		_,				

<sup>(\*1)</sup> 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 riccuit yourself or disassemble the product yourself and always ask a professional.

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

(\*3) Optional air protection guide is required where amblient 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

Туре						Inv	erter Heat Pump			
Indoor Un	it			PEAD-SM71JA (L)	PEAD-SM100JA (L)	PEAD-SM100JA (L)	PEAD-SM125JA (L)	PEAD-SM125JA (L)	PEAD-SM140JA (L)	PEAD-SM140JA (L)
Outdoor L	Jnit			SUZ-SM71VA	PUZ-SM100VKA	PUZ-SM100YKA	PUZ-SM125VKA	PUZ-SM125YKA	PUZ-SM140VKA	PUZ-SM140YKA
Refrigeran							R32 <sup>(*1)</sup>			
Power	Source					Out	door power supply			
Supply	Outdoor (V / Phase / Hz)	1				VA · VKA:230 / S	ingle / 50, YKA:400	/ Three / 50		
		Rated	kW	7,1	9,5	9,5	12	2,1	13	3,4
	Capacity	Min-Max	kW	2,2-8,1	4,0-10,6	4,0-10,6	6,0-	13,0	6,1-	14,1
	Total Input	Rated	kW	2,08	2,95	2,95	4,	17	4,	96
	EER			3,41	3,21	3,21	2	,9	2	,7
Cooling	EEL Rank			-	-	-		-		-
	Design load		kW	7,1	9,5	9,5	12	2,1	13	3,4
	Annual electricity consi	umption (*2)	kWh/a	451	626	626		-		-
	SEER			5,5	5,3	5,3		-		-
	Energy efficiency class			A	A	A		-		-
	Capacity	Rated	kW	8	11,2	11,2		3,5		5
		Min-Max	kW	2,0-10,2	2,8-12,5	2,8-12,5		15,0	,	15,8
	Total Input	Rated	kW	2,21	3,02	3,02	3,			28
	COP			3,61	3,7	3,7	3	,5	3	,5
	EEL Rank			-	-	-				-
Heating	Design load		kW	5,8	8	8		,5		,4
(Average Season)		at reference design temperature	kW	5,2 (-6°C)	6,0 (-10°C)	6,0 (-10°C)	8,5 (-		9,4 (-	
Seasonj	Declared Capacity	at bivalent temperature	kW	5,2 (-7°C)	7,0 (-7°C)	7,0 (-7°C)	8,5 (-		9,4 (-	
		at operation limit temperature	kW	5,2 (-10°C)	4,5 (-15°C)	4,5 (-15°C)	6,0 (-			15°C)
	Back up heating capacity kW  Annual electricity consumption (*2) kWh			0,6	2	2		)		)
		umption (*²)	kWh/a	2080	2865	2865		-		-
	SCOP		3,9	3,9	3,9		-		-	
0	Energy efficiency class g Current (Max)		A	A 16,8	A 22,7	A 14,2	29,3	- 110		
Operating	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	14,3 0,36 (0,34) / 0,34	32,8 0,39 (0,37) / 0,37	14,3 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
Indoor	Weight (L:No Drain Pum		kg	30 (29)	39 (38)	39 (38)	40 (39)	40 (39)	44 (43)	44 (43)
Unit	Air Volume (Lo-Mid-Hi)	197	m³/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	<u> </u>	Pa	17,0 21,0 20,0	24,0 20,0 04,0		5 / 50 / 70 / 100	20,0 00,0 42,0	02,0 00,0 40,0	02,0 00,0 40,0
	Sound Level (Lo-Mid-Hi		dB(A)	26-30-34	29-5	34-38		6-40	34-9	8-43
	Sound Level (PWL)	7 (0. 2)	dB(A)	58		32		6		7
	Dimensions	HxWxD	mm	880x840x330				981x1050x330 (+40		
	Weight	-	kg	55	76	78	84	85	84	85
		Cooling	m³/min	50,1	79	79	86	86	86	86
0.41	Air Volume	Heating	m³/min	50,1	79	79	92	92	92	92
Outdoor Unit	Sound Level (SPL)	Cooling	dB(A)	49	51	51	54	54	55	55
	Sound Level (SFL)	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	)	Α	14,8	20	11,5	26,5	11,5	30	11,5
	Breaker Size		Α	20	32	16	32	16	40	16
Ext.	Diameter	Liquid/Gas	mm				9,52 / 15,88			
Piping	Max. Length	Out-In	m		30	-		4	10	
	Max. Height	Out-In	m				30			
	eed Operating Range	Cooling <sup>(13)</sup>	℃				-15 ~ +46			
(Outdoor)		Heating	℃	-10 ~ +24			-15 -	+21		
Refrigera	frigerant/GWP			R32/675(*4)						
		Weight	kg	1,45	3,10	3,10	3,60	3,60	3,60	3,60
Pre-Cha	rged quantity	CO, equivalent	t		2.09	-		-	-	2.43
		2 '	_	0,98		2,09	2,43	2,43	2,43	, ,
Max add	ed quantity	Weight	kg	2,37	4,10	4,10	5,00	5,00	5,00	5,00
		CO <sub>2</sub> equivalent	t	1,60	2,77	2,77	3,38	3,38	3,38	3,38

<sup>(\*1)</sup> 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 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 1-5°C.

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

# MULT SPILITERS

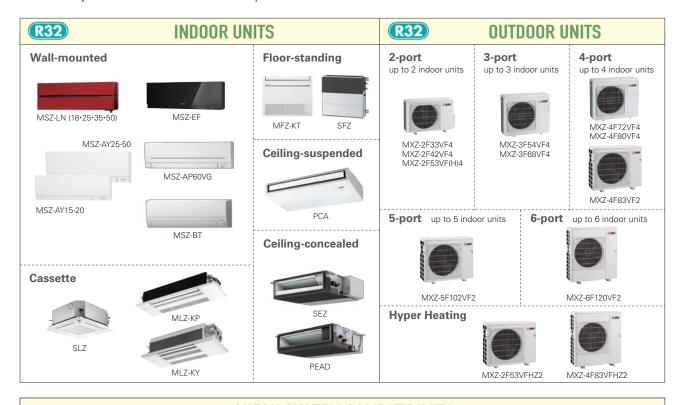






### **SELECTION**

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.



### **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.





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



3-port 4-port

MXZ-3F54VF4 MXZ-3F68VF4 MX7-4F72VF4 MXZ-4F80VF4



4-port 5-port MXZ-4F83VF2 MXZ-5F102VF2



**R32** 

6-port MXZ-6F120VF2



### 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

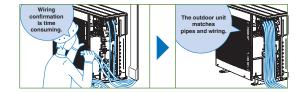
The MXZ Series for R32 offers a ten-system line-up to choose from, ranging between 3.3 and 12.0kW. All of them are compatible with specific M, S and P series indoor units. A single outdoor unit can handle a wide range of building layouts.

### 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



### **Operation Lock**

with the unit set to the "Cooling" mode.

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













Type (Inv	ype (Inverter Multi - Split Heat Pump)				Up to 2 In	door Units		Up to 3 In	door Units	Up	to 4 Indoor U	nits	Up to 5 Indoor Units
Indoor Ur	nit							Please i	efer to*3				
Outdoor I	Jnit			MXZ-2F33VF4	MXZ-2F42VF4	MXZ-2F53VF4	MXZ-2F53VFH4	MXZ-3F54VF4	MXZ-3F68VF4	MXZ-4F72VF4	MXZ-4F80VF4	MXZ-4F83VF2	MXZ-5F102VF2
Refrigera	nt							R	32				
Power	Source							Outdoor po	ower supply				
Supply	Outdoor (V/Pha	se/Hz)					2	220 - 230 - 240	V / Single / 50H	łz			
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 Electri	icity Consumption*1	kWh/a	189	169	216	216	222	301	311	368	342	436
	SEER*3 Energy Efficiency Class			6.1	8.7	8.6	8.6	8.5	7.9	8.1	7.6	8.5	8.2
				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
		ference design temperature	kW	2.2	2.7	2.7	2.7	4.2	5.7	5.6	5.6	5.8	5.9
	Capacity at bi	valent temperature	kW	2.4	2.9	2.9	2.9	4.8	6.4	6.2	6.2	6.2	6.4
	at op	peration limit temperature	kW	1.6	2.3	2.3	2.1	3.2	4.6	4.8	4.8	4.9	4.9
	Back Up Heat	ing Capacity	kW	0.5	0.8	0.8	0.8	1.0	1.1	1.4	1.4	1.2	1.5
	Annual Electri	icity 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. Ope	erating Current (In	ndoor+Outdoor)	А	10.0	12.2	12.2	12.2	18.0	18.0	18.0	18.0	21.4	21.4
Outdoor	Dimensions	H*W*D	mm		550 - 8	00 (+69) - 285	(+59.5)		710 - 840	- 330 (+66)		796 - 9	50 - 330
Unit	Weight	•	kg	33	37	37	38	58	58	59	59	62	62
	Air Volume	Cooling	m³/min	30.8	28.4	32.7	32.7	31	35.4	35.4	40.3	57	63
		Heating	m³/min	32.3	33.5	34.7	34.7	31	39.6	42.7	44.1	62	75
	Sound Level (SP	<b>PL)</b> 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 (PV	VL) Cooling	dB(A)	60	59	61	61	60	63	63	65	61	65
	Breaker Size	•	Α	15	15	15	15	25	25	25	25	25	25
Ext.	Port Diameter	Liquid	mm	6.35 × 2	6.35 × 2	6.35 × 2	6.35 × 2	6.35 × 3	6.35 × 3	6.35 × 4	6.35 × 4	6.35 × 4	6.35 × 5
Piping		Gas	mm	9.52 × 2	9.52 × 2	9.52 × 2	9.52 × 2	9.52 × 3	9.52 × 3	12.7 × 1+9.52 × 3	12.7 × 1+9.52 × 3	12.7 × 1+9.52 × 3	12.7 × 1+9.52 × 4
	<b>Total Piping Len</b>	gth (max)	m	20	30	30	30	50	60	60	60	70	80
	Each Indoor Uni	t 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 Leng	<b>jth</b>	m	20	30	30	30	50	60	60	60	70	80
	ed Operating Ra	nge Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46
[Outdoor]		Heating	°C	-15 ~ +24	-15 ~ +24	-15 ~ +24	-20 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24	-15 ~ +24
Refrigera				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-Char	ged Quantity	Weight	kg	0.8	1.0	1.0	1.0	2.4	2.4	2.4	2.4	2.4	2.4
		CO <sub>2</sub> equivalent	t	0.54	0.68	0.68	0.68	1.62	1.62	1.62	1.62	1.62	1.62
Max Add	ed Quantity	Weight	kg	0.8	1.0	1.0	1.0	2.4	2.4	2.4	2.4	2.4	2.4
		CO <sub>2</sub> equivalent	t	0.54	0.68	0.68	0.68	1.62	1.62	1.62	1.62	1.62	1.62
		•											

Type (Inv	erter Multi - :	Split Hea	t Pump)		Up to 6 Indoor Units
Indoor Un	it				Please refer to*3
Outdoor U	Jnit				MXZ-6F120VF2
Refrigerar	nt				R32
Power	Source				Outdoor power supply
Supply	Outdoor (V/	Phase/H	z)		220 - 230 - 240V / Single / 50Hz
Cooling	Capacity		Rated	kW	12.0
	Input		Rated	kW	3.60
	Design Lo	ad		kW	12.0
	Annual El	ectricity	Consumption*1	kWh/a	612
	SEER*3				6.86
			Energy Efficiency C	lass*3	A++
Heating	Capacity		Rated	kW	14.0
	Input		Rated	kW	3.31
	Design Lo	ad		kW	8.1
			ce design temperature	kW	6.9
	Capacity	at bivalen	t temperature	kW	7.6
		at operati	on limit temperature	kW	5.7
	Back Up I	Heating C	Capacity	kW	1.2
	Annual El	ectricity	Consumption*1	kWh/a	2794
	SCOP*3				4.06
			Energy Efficiency C	lass*3	A <sup>+</sup>
Max. Ope	rating Curre	nt (Indoo	r+Outdoor)	Α	29.8
	Dimensions		H*W*D	mm	1048 - 950 - 330
Unit	Weight			kg	87
	Air Volume		Cooling	m³/min	63
			Heating	m³/min	77
	Sound Leve	I (SPL)	Cooling	dB(A)	55
			Heating	dB(A)	57
	Sound Leve	I (PWL)	Cooling	dB(A)	69
	Breaker Size			Α	32
Ext.	Port Diamet	er	Liquid	mm	6.35 × 6
Piping			Gas	mm	12.7 × 1 + 9.52 × 5
	Total Piping			m	80
	Each Indoor	Unit Pip	ing Length (max)	m	25
	Max. Height	:		m	15
	Chargeless	Length		m	80
	ed Operating	g Range	Cooling	°C	-10 ~ +46
[Outdoor]			Heating	°C	-15 ~ +24
Refrigera					R32/675*4
Pre-Charg	ged Quantity		Weight	kg	2.4
			CO <sub>2</sub> equivalent	t	1.62
Max Add	ed Quantity		Weight	kg	2.4
			CO <sub>2</sub> 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 connected to the indoor units listed below.

MXZ-2F33VF4

MXZ-2F33VF4

MXZ-2F33VF4

MXZ-LN18VG2 + MXZ-LN25VG2

MXZ-2F53VF4/FH4

MXZ-LN18VG2 + MXZ-LN25VG2

MXZ-3F64VF4

MXZ-LN18VG2 + MXZ-LN35VG2

MXZ-3F68VF4

MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2

MXZ-4F80VF4

MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2

MXZ-4F80VF4

MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2

MXZ-4F80VF4

MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN25VG2

MXZ-4F80VF4

MXZ-4F80VF2

MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN25VG2

MXZ-4F80VF2

MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN25VG2

MXZ-6F120VF2

MXZ-6F120VF2

MXZ-6F120VF2

MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN25VG2

MXZ-6F120VF2

MXZ-6F120VF2

MXZ-6F120VF2

MXZ-6F120VF2

MXZ-6F120VF2

MXZ-M18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN18VG2 + MXZ-LN25VG2

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

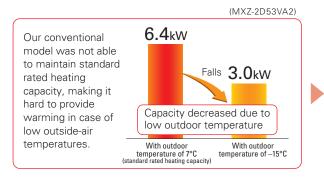
# MXZ-VFHZ SERIES

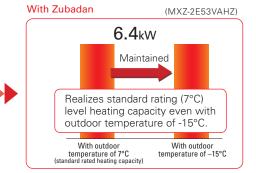
New hyper-heating MXZ allows you to create an oasis of comfort throughout your home and office in the rooms you use most, any time of the year.



# 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.



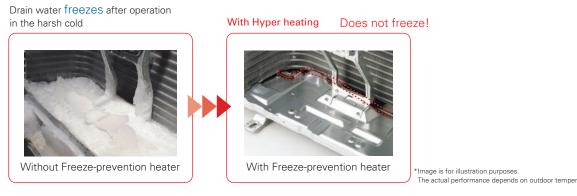


### Can Operate at Outdoor Temperature of -25°c

- 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.

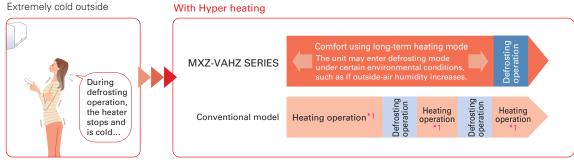
### Equipped Freeze-prevention Heater as Standard

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



### Continuous Heating for Long Periods

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

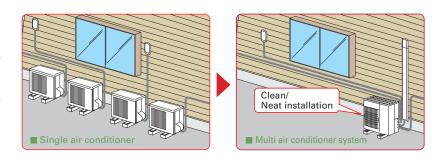


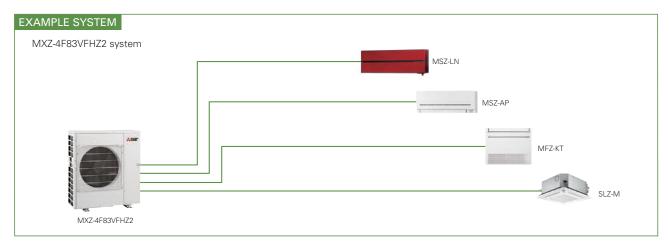
<sup>\*1:</sup> Conventional model performs continuous heating approximately 30min up to a maximum of 90min.

## 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.

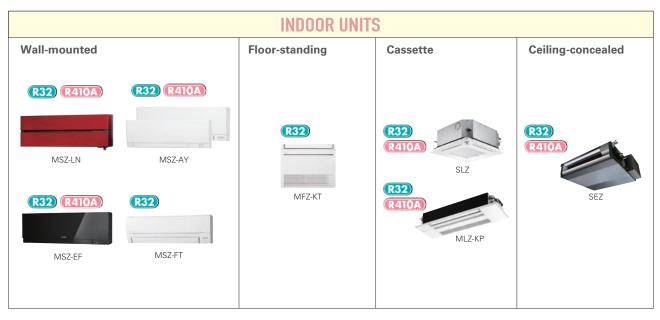




### Freedom of Combinations in Cold Region Greatly Enhanced

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





### MXZ-VFHZ SERIES











### **Outdoor Unit**











MXZ-4F83VFHZ2

Туре				Inverter F	eat Pump				
Indoor Un	it	·			fer to*2 *3				
Outdoor U	Jnit			MXZ-2F53VFHZ2	MXZ-4F83VFHZ2				
Refrigerar					2*4				
Power	Source			Outdoor po	ower supply				
Supply	Outdoor (V/Phase/H	łz)		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	<u> </u>	kW	5.3	8.3				
	Annual Electricity Consumption*1			274	398				
	SEER*5			6.8	7.3				
		Energy Efficiency Class		A++	A++				
Heating	Capacity	Rated (7°C)	kW	6.4	9.0				
Average		Rated (-7°C)	kW	6.4	9.0				
Season)		Rated (-15°C)	kW	6.4	9.0				
		Min - Max	kW	1.0 - 7.0	3.5 - 11.6				
	Total Input	Rated	kW	1.36	1.70				
	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 Co	onsumption*1	kWh/a	2172	3286				
	SCOP*5			4.1	4.3				
		Energy Efficiency Class		A <sup>+</sup>	A <sup>+</sup>				
Мах. Оре	erating Current (Indoo	or+Outdoor)	Α	15.6	28.0				
Outdoor	Dimensions	H*W*D	mm	796 × 950 × 330	1048 × 950 × 330				
Unit	Weight	<u> </u>	kg	61	86				
	Air Volume	Cooling	m³/min	43	63				
		Heating	m³/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	* *	А	16	30				
Ext.	Diameter	Liquid / Gas	mm	6.35 × 2 / 9.52 × 2	6.35× 4 / 12.7 × 1+9.52 × 3				
Piping	Total Piping Length	(max)	m	30	70				
	Each Indoor Unit Pip	oing Length (max)	m	20	25				
	Max. Height		m	15	15				
	Chargeless Length		m	30	70				
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46				
[Outdoor]		Heating	°C	-25 ~ +24	-25 ~ +24				

<sup>\*1</sup> 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.

\*MX2-FES3VFH22 MSZ-LN18WG2 + MSZ-LN3SWG2

MX2-FES3VFH22 MSZ-LN18WG2 + MSZ-LN2SWG2 + 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 CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

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

\*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.





### Stylish Design with Flat Panel Front

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



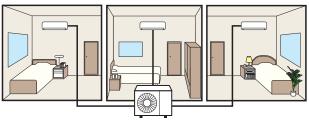
### Easy to Create Various Combinations

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

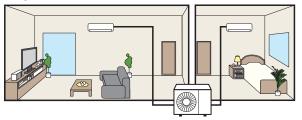
### Two bedrooms



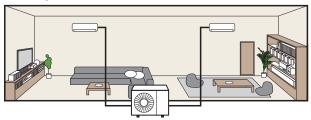




Living room and one bedroom



Wide living room



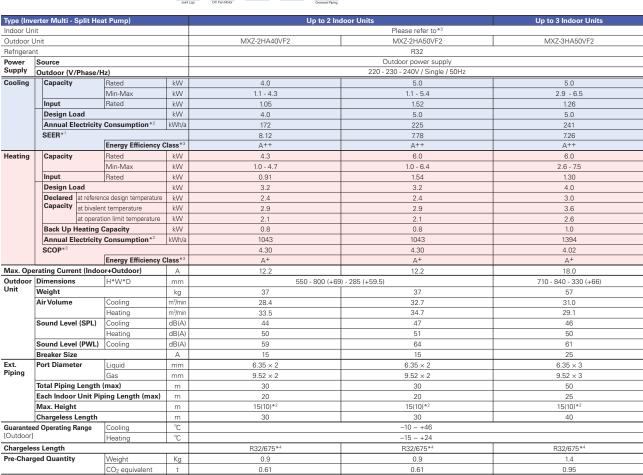












0.9

0.61

1.6

1.08

Max Added Quantity

Kg

0.9

0.61

Weight CO<sub>2</sub> equivalent

<sup>1</sup> 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

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

<sup>\*4</sup> 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.

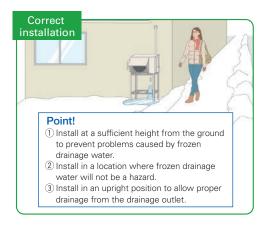


2

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.

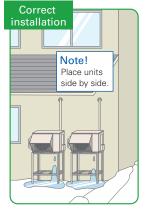


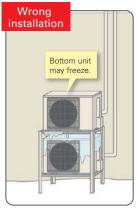




### Case 2: Multiple units are installed

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





# Measures for Snow

### Unit is installed on the ground

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

# [RAC/PAC/MXZ] Correct installation

### Point!

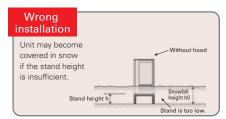
- 1) Install at a position/height to prevent the unit being buried in snow \*1 and the adverse effects of frozen drainage water.\*2
- 2) Install so as to avoid the effects of snow or snowdrift.
- 3 Install so as to avoid the damage from falling snow or icicles.
  - \*1 Install at a height above the highest snowfall depth. \*\* Illstand at a riegar above at a migrost school at a riegar at a





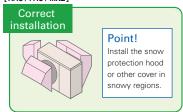
Use a stand to add sufficient height to protect the unit heat exchanger from snow and prevent icicles forming during defrost operation.

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



### Install snow protection hood as necessary

[RAC/PAC/MXZ]



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

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

### About disposal of drainage water



### 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.

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

### Indoor Unit Compatibility Table

■ MXZ Series R32
Possible combinations of outdoor units and indoor units are shown below.

			MXZ-*1	MXZ-*1	MXZ-*1	MXZ <sup>*1</sup>	MXZ-*1	MXZ-*1		MXZ-*1	MXZ-	MXZ-	MXZ-	MXZ-	MXZ-*1	MXZ-*1	M
or Unit			2F33VF4	2F42VF4	2F53VF(H)4	2F53VFHZ2	3F54VF4	3F68VF4	4F72VF4	4F80VF4	4F83VF2	4F83VFHZ2	5F102VF2	6F120VF2	2HA40VF2	2HA50VF2	ЗНА
eries	Wall-	MSZ-RZ25VU															
	Mounted	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)						•			•	•	•	•			L
		MSZ-AP71VG(K)															
		MSZ-EF18VG(K)(W)(B)(S)	•	•	•	•	•	•	•	•	•	•	•	•			П
		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)		•	•	•	•	•	•	•		•	•	•			П
		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-	MFZ-KT25VG				•											
	Standing	MFZ-KT35VG					•	•		•							
		MFZ-KT50VG															
	1-way	MLZ-KP25VG	•	•	•	•	•	•	•	•			•	•			
	Cassette	MLZ-KP35VG				•	•							•			
		MLZ-KP50VG					•	•	•				•	•			
		MLZ-KY20VG							_								
													•				
eries	2×2	SLZ-M15FA2	•	•	•	•	•	•	•	•	•	•	•	•			
	Cassette	SLZ-M25FA2					•	•									
		SLZ-M35FA2				•	•	•		•							1
		SLZ-M50FA2					•	•	•	•	•	•	•	•			
		SLZ-M60FA2															
	Ceiling-	SEZ-M25DA2 *2	•	•	•	•	•	•	•	•	•	•	•	•			
	Concealed																H
		SEZ-M25DAL2 *2	•	•		•	•	•	•	•		•		•			
		SEZ-M35DA2		•	•	•	•	•	•		•		•	•			
		SEZ-M35DAL2		•	•	•	•	•	•	•	•	•	•	•			L
		SEZ-M50DA2					•							•			
		SEZ-M50DAL2					•	•	•	•				•			Γ
		SEZ-M60DA2						•	•	•	•	•		•			
		SEZ-M60DAL2						•	•	•	•	•	•	•			
		SEZ-M71DA2									•	•	•	•			
	-	SEZ-M71DAL2									•	•	•	•			L
	Concealed	SFZ-M25VA				•	•	•						•			
	Floor- Standing	SFZ-M35VA		•	•		•				•		•	•			Ι.
	Ottailunig	SFZ-M50VA					•	•	•	•	•	•	•	•			
		SFZ-M60VA							•	•	•	•	•	•			П
		SFZ-M71VA									•	•	•	•			
eries	Ceiling-	PCA-M50KA2					•	•	•	•	-	-	-	-			
ries	Suspended								_								
		PCA-M60KA2						•									
		PCA-M71KA2															L
	Ceiling-	PEAD-M35JA2					<b>●</b> *3	<b>●</b> *3	*3	●*3	*3	*3*4	<b>*</b> 3	*3			
	Concealed	PEAD-M35JAL2					*3	*3	*3	*3	*3	*3*4	*3	*3			Г
		PEAD-M50JA2					•*3	*3	*3	*3	•*3	*3*4	• *3	•*3			
							_	_	_		_			_			H
		PEAD-M50JAL2					● *3	*3	*3	●*3	*3	*3*4	<b>●</b> *3	*3			
		PEAD-M60JA2									<b>*</b> 3	*3*4	<b>*</b> 3	<b>*</b> 3			
		PEAD-M60JAL2									<b>*</b> 3	<b>●</b> *3*4	<b>*</b> 3	<b>*</b> 3			1
											<b>*</b> 3	*3*4	<b>*</b> 3	<b>*</b> 3			
		PEAD-M71JA2															

<sup>\*1</sup> 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.

# SERIES







### **SELECTION**

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





# Check Indoor Units Refer to the "Indoor Unit Compatibility Table" to check if the indoor 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.

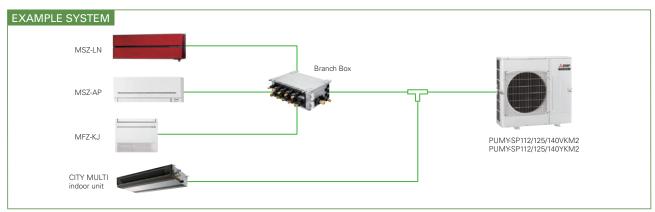
# PUMY-SP SERIES

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



### Light Weight and Compact Size

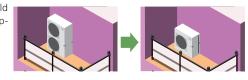
Compact design fits into narrow outdoor unit space of condominiums and offices. Light weight design facilitates easy installation and transportation.



### Unobstructive, compact, and easy to hide from view

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

tions that would have been inappropriate.



### Easy installation and transportation

The installation location is flexible.

thanks to its 30Pa static pressure.

You can install it in locations that you

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

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.

### Industry's Top Energy Efficiency

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



### Super Silent Mode\*

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

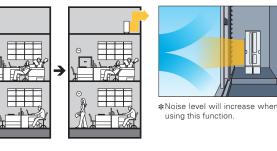
- \*Capacity reduction differs by mode setting.
- \*PAC-SC36NA-E is required to activate Super Silent mode

### Rear Piping is Available

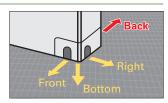
### Freedom with layout due to its piping pullout locations in four directions

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

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



An External Static Pressure of 30Pa

















Model				PUMY-SP112VKM2 (-BS)	PUMY-SP125VKM2 (-BS)	PUMY-SP140VKM2 (-BS)	PUMY-SP112YKM2 (-BS)	PUMY-SP125YKM2 (-BS)	PUMY-SP140YKM2 (-BS)
Power Source				1-phas	se 220-230-240V 50Hz, 220V	/ 60Hz	3-phas	se 380-400-415V 50Hz, 380\	√ 60Hz
Cooling Capacity		*1	kW	12.5	14.0	15.5	12.5	14.0	15.5
(Nominal)	Power In	put	kW	4.46	5.11	5.34	4.46	5.11	5.34
	Current li	nput	А	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	Indoor Te	mp.	W.B.	15.0~24.0°C (59~75°F)					
Cooling	Outdoor Te	emp.*2	D.B.	-5.0~52.0°C (23~126°F)					
Heating Capacity		*3	kW	14.0	16.0	16.5	14.0	16.0	16.5
(Nominal)	Power In	put	kW	3.66	4.31	4.36	3.66	4.31	4.36
	Current I	nput	А	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	Indoor Te	mp.	D.B.	15.0~27.0°C (59~81°F)	15.0~27.0°C( 59~81°F)				
Heating	Outdoor	Temp.	W.B.	-20.0~15.0°C (-4~59°F)					
Indoor Unit	Total Cap	acity		50~130 % of outdoor unit capacity					
Connectable	Model / O	uantity	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	Branch	City Multi	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5
	System	Box 1 unit	Branch Box*5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5
		Branch	City Multi	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3	10 - 140 / 3
		Box 2 units	Branch Box*5	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8
Sound Pressure Le		1)	dB <a></a>	52/54	53/56	54/56	52/54	53/56	54/56
Sound Power Level (Measured In Anecl		1)	dB <a></a>	72/74	73/76	74/76	72/74	73/76	74/76
Refrigerant Piping	Liquid Pi	ре	mm (in.)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
Diameter	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 × Q			Propeller Fan x 1					
	Air Flow	Rate	m³/min	77	83	83	77	83	83
			L/s	1,283	1,383	1,383	1,283	1,383	1,383
			cfm	2,719	2,931	2,931	2,719	2,931	2,931
	Motor Ou	ıtput	kW	0.20 × 1	0.20 × 1	0.20 × 1	0.20 × 1	0.20 × 1	0.20 × 1
	External	Static Pr	ess.	0Pa / 30Pa*6					
Compressor	Type x Qu					Twin rotary herme	tic compressor × 1		
	Starting I						erter		
	Motor Ou	ıtput	kW	3.9	3.9	4.2	3.9	3.8	4.1
External dimension	H*W*D		mm			981 × 1,050			
			in.			38-5/8 × 41-3/8	× 13 (+1-37/64)		
Net Weight			kg (lbs)		93 (205)*7			94 (207)*8	

\*1,\*3 Nominal conditions

	Indoor	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

<sup>\*2 10</sup> to 52°C; incase of connecting PKFYP15/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 OP as initial setting

\*7 94 (207), for PUMYSP112/125/140YKM2-BS

\*8 95 (209), for PUMYSP112/125/140YKM2-BS

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

### <Branch box compatible table>

-Dianon box co	imputible tubic-				
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	✓	<b>✓</b>
	PUMY-P200YKM3(-BS)	N/A	N/A	√*	√*
	PUMY-P250/300YBM2(-BS)	N/A	N/A	√*	<b>√</b> *

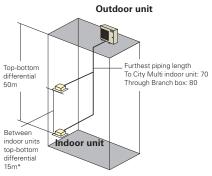
<sup>\*</sup>ecodan is NG

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

Refrigerant Piping Lengths	Maximum meters
Total length	120
Maximum allowable lengthTo	City Multi indoor
L	ınit: 70
Th	rough Branch box: 80

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

Maximum meters



\*In case of branch box connection: 12m

The piping connection size differs according to the type and capacity of outdoor/indoor units.

Match the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box with outdoor/indoor unit. If the piping connection size of branch box 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-P SERIES

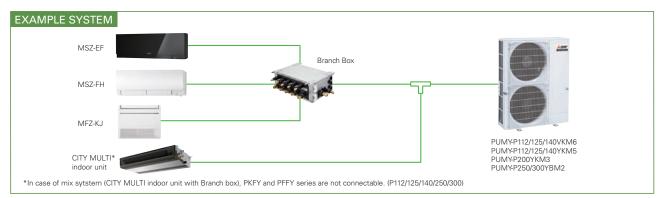
Air conditioning system supports replacement work by simplifying the installation process. Ideal for supporting renewal needs at small offices and stores, home offices, etc.





### R410A

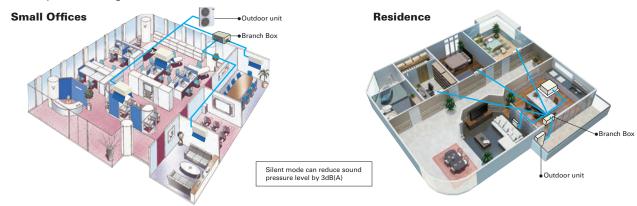
PUMY-P112/125/140VKM6 PUMY-P112/125/140YKM5 PUMY-P200YKM3 PUMY-P250/300YBM2



### 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.



				Maximu	ım Meters			
			Only City Multi*1	Only Branch Box	Mixed System (City Multi*	Indoor Unit + Branch Box)		
			Indoor Unit	Connection	City Multi*1 Indoor Unit	Via Branch Box		
P112/125/140	Refrigerant Piping Length	Total Length	300	150	240 (2 Branch boxes	) / 300 (1 Branch box)		
		Maximum Allowable Length	150 (175 equivalent)	80	85 (95 equivalent)	80		
		Farthest Indoor From First Branch	30	_	30	-		
		Piping Length Between Outdoor Unit and Branch Boxes	-	55	-	55		
	Vertical Differentials	Indoor/Outdoor (Outdoor higher)	50	50	5	i0		
	Between Units	Indoor/Outdoor(Outdoor Lower)	40*2	40	40			
		Indoor/Indoor	15	12	1	12		
P200	Refrigerant Piping Length	Total Length	150	150	11	50		
		Maximum Allowable Length	80 (90 equivalent)	80	80 (90 equivalent)	80		
		Farthest Indoor From First Branch	30	-	30	-		
		Piping Length Between Outdoor Unit and Branch Boxes	-	55	-	55		
	Vertical Differentials	Indoor/Outdoor (Outdoor higher)	50	50	5	0		
	Between Units	Indoor/Outdoor (Outdoor Lower)	40	40	40			
		Indoor/Indoor	15	12	1	2		
P250/300	Refrigerant Piping Length	Total Length	310	240	3	10		
		Maximum Allowable Length	150 (175 equivalent)	80	85 (95 equivalent)	80		
		Farthest Indoor From First Branch	30	_	30	-		
		Piping Length Between Outdoor Unit and Branch Boxes	_	95	_	95		
	Vertical Differentials	Indoor/Outdoor (Outdoor higher)	50	50	5	0		
	Between Units	Indoor/Outdoor (Outdoor Lower)	40	40	4	10		
		Indoor/Indoor	15	12	1	2		

<sup>\*1</sup> 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

















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 3	80-400-415V 50Hz, 3	880V 60Hz	3-р	hase 380-400-415V 5	0Hz			
Cooling Capacity	-	*1	kW	12.5	14.0	15.5	12.5	14.0	15.5	22.4	28.0	33.5			
(Nominal)	Power Inp	ut	kW	4.34	5.00	5.17	4.34	5.00	5.17	7.18	8.21	11.96			
	Current In	put	А	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		8.45 - 8.02 - 7.73, 8.45	8.27 - 7.86 - 7.58, 8.27		13.41 - 12.74 - 12.28	19.54 - 18.56 - 17.89			
	EER		kW/kW	2.88	2.80	3.00	2.88	2.80	3.00	3.12	3.41	2.80			
Temp. Range of	Indoor Ter	np.	W.B.	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59~75°F)	15.0~24.0°C (59 ~75°F)			
Cooling	Outdoor To	emp.*2,*3	D.B.	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)	-5.0~52.0°C (23~126°F)			
Heating Capacity		*4	kW	14.0	16.0	18.0	14.0	16.0	18.0	25.0	31.5	37.5			
(Nominal)	Power Inp		kW	3.49	4.06	4.63	3.49	4.06	4.63	5.85	7.91	9.69			
	Current In	put	Α	16.11 - 15.41 - 14.77, 16.11 - 15.41		21.37 - 20.44 - 19.59, 21.37 - 20.44				9.56 - 9.08 - 8.76		15.83 - 15.04 - 14.50			
	COP		kW/kW	4.01	3.94	3.89	4.01	3.94	3.89	4.27	3.98	3.87			
Temp. Range Of	Indoor Ter	np.	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)			
Heating	Outdoor T	emp.	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	Total Capa	city		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			
Connectable	Model / Qua	antity	City Multi*5	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	10 - 140 / 9	10 - 140 / 10	10 - 140 / 12	10 - 140 / 12	10 - 250 / 30	10 - 250 / 30			
			Branch Box*6	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 100 / 8	15 - 50 / 12	15 - 50 / 12			
	Mixed	Branch Box	City Multi	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 140 / 5	10 - 200 / 5	10 - 250 / 25	10 - 250 / 25			
	System	1 unit	Branch Box*6	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5	15 - 100 / 5			
		Branch	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	City Multi	-	-	-	-	-	-	-	10 - 250 / 22	10 - 250 / 22			
		3 units	Branch Box*6	-	-	-	-	-	-	-	15 - 50 / 12	15 - 50 / 12			
Sound Pressure Leve (Measured In Anecho			dB <a></a>	49/51	50/52	51/53	49/51	50/52	51/53	57/61	55/61	57/62			
Sound Power Level (Measured In Anecho	ic Room)		dB <a></a>	69/71	70/72	71/73	69/71	70/72	71/73	76/80	74/79	75/79			
Refrigerant Piping	Liquid Pipe	е	mm (in.)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)*7	9.52 (3/8) *8	12.7 (1/2)			
Diameter	Gas Pipe		mm (in.)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (4/3)	22.4 (7/8)	22.4 (7/8)			
Fan	Type x Qu	antity		Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2	Propeller Fan x 2			
	Air Flow R	ate	m³/min	110	110	110	110	110	110	139/141	165/183	165/183			
			L/s	1,833	1,833	1,833	1,833	1,833	1,833	2,317/2,350	2,750/3,050	2,750/3,050			
			cfm	3,884	3,884	3,884	3,884	3,884	3,884	4,909/4,979	5,826/6,462	5,826/6,462			
	Motor Out	put	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 x Qu	antity					Scrol	hermetic compress	or × 1						
	Starting M	lethod						Inverter							
	Motor Out	put	kW	2.9	3.5	3.9	2.9	3.5	3.9	5.3	8.87	10.15			
External Dimension H	I*W*D		mm			1,3	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 (+											
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 PKFVP10/15/20/25/32VLM, PKFVP15/20/25VBM, PFFYP20/25/32VKM and PFFYP20/25/32VCM, PFFYP20/25/32VLE(R)M, PEFYP-VMA3, M, S and P series indoor unit.

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

  \*5 It is possible to connect 1 Fresh Air type indoor unit to 7 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 PEFYP200 or P250 is connected.

Туре				Branch Box						
Model Name	)	PAC-MK54BC PA								
Connectable	Number of Indoo	or Units		Maximum 5	Maximum 3					
Power Supp	ly (from outdoor	unit)		~ / N, 220 / 230 / 240 V, 50 Hz, ~ / N, 220 / 230 V, 60 H:						
Input			kW	0.00	03					
Running Cur	rent		A	0.05 (M	lax. 6)					
Dimensions		H*W*D	mm	$170 \times 450 \times 280$						
Weight			kg	7.4 6.						
Piping	Branch	Liquid	mm	ø6.35 × 5	ø6.35 × 3					
Connection (Flare)	[Indoor Side]	Gas	mm	ø9.52 × 4, ø12.7 × 1	ø9.52 × 3					
Main Liquid		mm	ø9.52							
[Outdoor Side] Gas		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.)

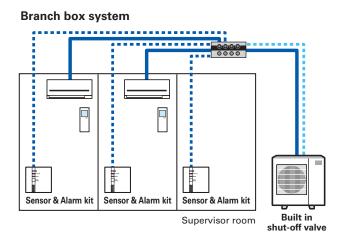
# PUMY-SM

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

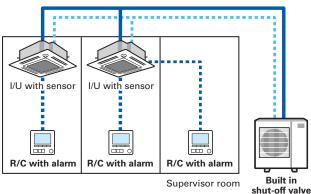


(R32) PUMY-SM112/125/140VKM PUMY-SM112/125/140YKM

### System of R32 PUMY



### 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 ki	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	Total Company Commit	• 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 re

### Branch box

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

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

wiring connection from one side.

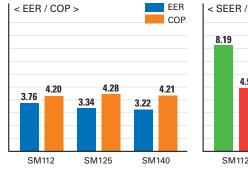
If necessary, you need to flip over only electrical box to connect from the Possible to make piping connection

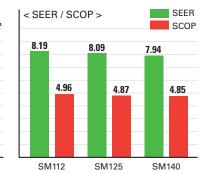
Possible to make piping connection from both side.
 Flipping over only electrical box is not difficult for installer.
 99.52/e15.88 can be connected to a large indoor unit placed in a living room or other large room.

### **Energy Efficiency**

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

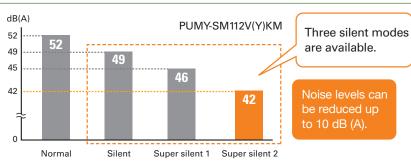
\* Temperature conditions EER : Indoor 27°C DB / Outdoor 35°C DB COP : Indoor 20°C DB / Outdoor 7°C DB SCOP/SEER: Based on ErP Lot 21/6 calculation method to EN14825.





### Super Silent Mode\*

- Noise level can be reduced up to 10dB(A). dB(A)
- This allows you to operate the unit even in the night in a residential zone.
  - \* Capacity reduction differs by mode setting.
  - \* PAC-SC36NA-E is required to activate Super Silent mode.
  - \* Cooling mode only.







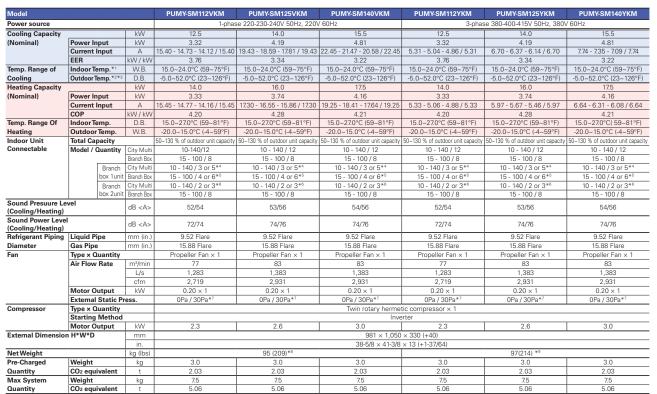












### Indoor unit connectable table

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
<b>Branch Box 2unit</b>	Branch Box	4	4	4
PAC-MMK40BC(B)		9	9	9
Mix System	CM Indoor	2	2	2
Branch Box 2unit	Branch Box	8	8	8
PAC-MMK60BC + P	AC-MMK40BC(B)	10	10	10
Mix System	CM Indoor	3	3	3
Branch Box 2unit	Branch Box	8	8	8
PAC-MMK40BC(B)	2unit	11	11	11

<sup>\*115</sup> to 23°C when using branch box(M/S/P series)
\*2 10 to 52°C: incase of connecting PKFYMS\*VKM, PKFYMS\*VLM indoor unit and M series, S series and P series type indoor unit with branch box.
\*3 -15 to 52°C, 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-MMK40BKC), connectable City Multi indoor units are 3; connected branch box is PAC-MMK40BC(B), connectable City Multi indoor units are 3.
\*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 4.

<sup>\*5</sup> when connected branch boxs are PAC-MMK40BC(B) and PAC-MMKK0BC, connectable indoor units via Dranch box are 4; connected branch box is PAC-MMK40BC(B) and PAC-MMK40BC(B), connectable City Multi indoor units are 2; connected branch boxes are PAC-MMK40BC(B) and PAC-MMK40BC are not allowed.

\*7 0 Pa as initial setting

\*8 96 (212), for PUMY-SM112/125/140VKM-BS

\*9 98 (216), for PUMY-SM112/125/140VKM-BS

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

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

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

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

Series	I/U Type	Model Name					Cap	acity			60 71						
Selles	70 Type	Wiodel Name	15	18	20	22	25	35	42	50	60	71					
M series	Wall-Mounted	MSZ-LN•VG2								•							
		MSZ-AP•VG(K)	•		•		•			•							
		MSZ-AY•VG(K)(P)	•		•		•	•		•							
		MSZ-FH•VE2					•	•		•							
		MSZ-EF•VG(K)				•	•	•	•	•							
		MSZ-SF∙VA	•		•												
		MSZ-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							Cap	acity						
Oeries	туре	Wodel Name	P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P20
	1-way cassette	PMFY-P•VBM-E			•			•								
MULTI series	2-way cassette	PLFY-P•VLMD-E										•				
series	4-way cassette	PLFY-M•VEM-E														
		PLFY-M•VEM6-E										•				
		PLFY-P•VBM-E														
		PLFY-P•VEM-E										•				
		PLFY-P•VCM-E														
		PLFY-P•VFM-E														
	Ceiling-concealed	PEFY-P•VMR-E-L/R				•	•									
		PEFY-P•VMS1(L)-E				•	•		•							
		PLFY-P•VMA(L)-E				•			•							
		PEFY-M•VMA(L)-A(1)				•	•		•		•	•				
		PEFY-P•VMH(S)-E						•	•		•	•		•		
		PEFY-P•VMH-E-F										•			•	
		PEFY-P•VMHS-E-F														
	Ceiling-suspended	PCFY-P•VKM-E												•		
	Wall-mounted	PKFY-P•VLM-E														
		PKFY-P•VBM-E														
		PKFY-P•VHM-E														
		PKFY-P•VKM-E														
	Built in	PDFY-P•VM-E			•			•								
	Floor-standing	PFFY-P•VKM-E2			•	•	•	•								
		PFFY-P•VLEM-E														
		PFFY-P•VLRM-E														
		PFFY-P•VLRMM-E			•			•								
		PFFY-P•VCM-E			•			•								
	Lossnay *1								GUF-50/1	00RD(H)4						

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

### **■ PUMY-P Series**

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

Series	Туре	Model Name						Capacity				60 71	
Series	туре	Woder Name	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					Сар	acity				
Selles	70 Type	Woder Name	15	18	20	22	25	35	42	50	60	71
M series	Wall-Mounted	MSZ-LN•VG2										
		MSZ-AP•VG(K)										
		MSZ-AY•VG(K)(P)										
		MSZ-FH•VE2										
		MSZ-EF•VG(K)										
		MSZ-SF•VA										
		MSZ-SF•VE3										
	Floor-Standing	MFZ-KT•VG					•			•		

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

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

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

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

<sup>\*1</sup> 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						
Series	Туре	Model Name	15	18	20	22	25	35	42	50	60	71	100
M series	Wall-Mounted	MSZ-LN•VG2						•		•			
		MSZ-RW•VG-E					•	•					
		MSZ-AP•VG(K)											
		MSZ-AY•VG(K)(P)	•		•		•	•	•	•			
		MSZ-FH•VE2						•					
		MSZ-EF∙VG(K)											
	Floor-Standing	MSZ-KT•VG											
S series	Ceiling Concealed	SEZ-M•DA(L)2											
	2×2 Cassette	SLZ-M•FA2						•					
P series	Ceiling Suspended	PCA-M•KA2											
	4-way Cassette	PCA-M•EA2						•		•	•	•	•
	Ceiling Concealed	PEAD-M•JA(2)											

### LEV Kit Connection Compatibility Table for PUMY-P250/300

Series	I/U Type Model Name		Capacity										
Series	I/O Type	Model Name	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	T	Model Name								Capacity							
Series	Type	woder name	P10	P15	P20	P25	P32	P40	P50	P63	P71	P80	P100	P125	P140	P200	P250
CITY	1-way cassette	PMFY-P•VBM-E			•	•		•									
MULTI series	2-way cassette	PLFY-P•VLMD-E			•	•		•	•	•		•	•	•			
361163	4-way cassette	PLFY-M•VEM-E			•				•	•							
		PLFY-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	-50/100RE	D(H)4						

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

### **■ PUMY-SM Series**

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

Model Na	me	15	18	20	22	25	35	42	50	60	71	100
M series	MSZ-RW•VG								•			
	MSZ-LN•VG2					•	•					
	MSZ-AP•VG(K)	•		•		•	•	•				
	MSZ-AY•VG(K)(P)	•		•		•	•	•				
	MSZ-EF∙VG(K)		•		•	•	•	•				
	MSZ-BT•VG(K)					•	•					
	MLZ-KY•VG			•								
	MLZ-KP•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 Na	me	Sensor	10	15	20	25	32	40	50	63	71	80	100	125	140
CITY	PLFY-M•VEM6-E				•	•	•	•	•	•	•	•	•	•	
MULTI series	PEFY-M•VMA(L)-A1					•	•	•	•	•	•	•	•	•	
Selles	PLFY-MS•VEM-E	<b>√</b>				•	•	•	•	•		•	•	•	
	PLFY-MS•VFM-E	<b>✓</b>				•	•	•	•						
	PCFY-MS•VKM-E	<b>✓</b>						•		•			•	•	
	PKFY-MS•VLM-E	~				•	•	•	•						
	PKFY-MS•VKM-E	<b>✓</b>								•					
	PEFY-MS•VMA(L)-A	✓				•	•	•	•	•	•	•	•	•	

### **Outdoor Unit Functions**

### Demand Control

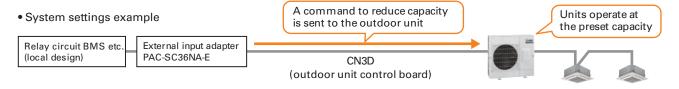
This function reduces the capacity of the outdoor/heat source unit by way of the external input to the outdoor unit.

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

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

### Possible usage

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



### Pump Down Function

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

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

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

### **Dual Set Point**

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

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

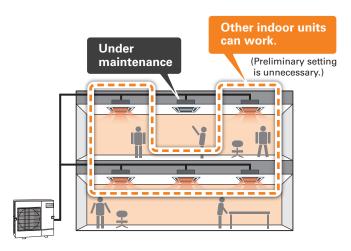
When the operation mode is set to Auto (dual set point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, the indoor unit will automatically operate in either the cooling or heating mode and keep the room temperature within the preset range.

The outdoor unit does not operate in the comfortable temperature band defined by two temperature points where the thermostat is off. This cuts down on unnecessary operation of the air conditioning system.

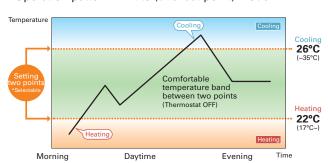
This function is supported only when all the indoor units, remote controllers, and system control lers that are connected to a given group are compatible with the function.

### 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.)



### • Operation pattern in Auto (dual set point) mode



# **NEW ECODESIGN DIRECTIVE**

### WHAT IS THE ErP DIRECTIVE?

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

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

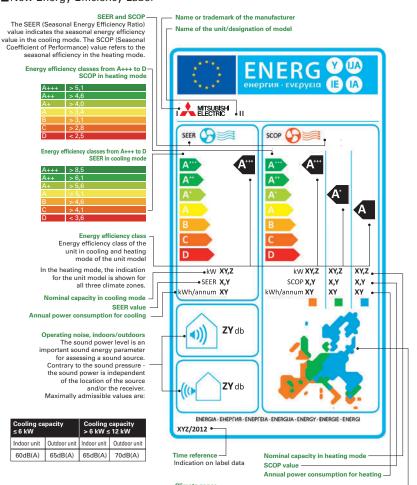
### **NEW ENERGY LABEL AND MEASUREMENTS**

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

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

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

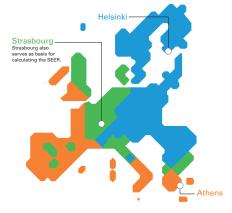
### ■New Energy Efficiency Label



For heating mode, the EU is divided into three climate zones for calculation and classification purposes. This aims at calculating the energy efficiency taking into consideration the actual regional

### ■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.



Temperature conditions									
Partial	Outdoors		Indoors						
oad	DB	WB	DB						
-	-	-	20°C						
00%	2°C	1°C	20°C						
64%	7°C	6°C	20°C						
29%	12°C	11°C	20°C						

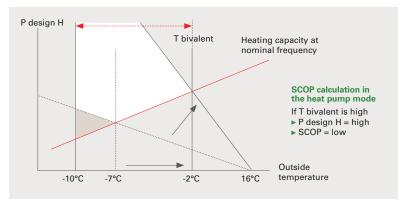
Moderate (	Moderate (Strasbourg)								
	Temperature conditions								
Partial	Outdoors		Indoors						
load	DB	WB	DB						
88%	-7°C	−8°C	20°C						
54%	2°C	1°C	20°C						
35%	7°C	6°C	20°C						
15%	12°C	11°C	20°C						

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

### SEER/SCOP

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

### ■SCOP Calculation



### Technical Terms with Respect to the SCOP

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

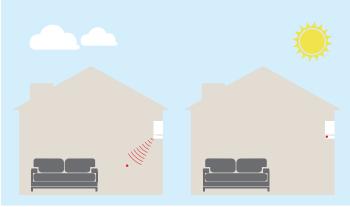
**T design:** Outside temperature which determines the P design H point. The latter is determined from the area conditions.

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

### SOUND PRESSURE LEVEL

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

### ■Sound Pressure vs Sound Power Level



Sound pressure level dB(A)

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

Sound power level dB(A)

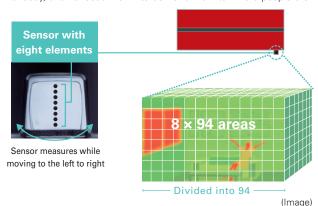
The sound power is an acoustic parameter which describes the source strength of a sound generator and is thus independent of the distance to the receiver location.

# **COMFORT**

### 3D i-see Sensor

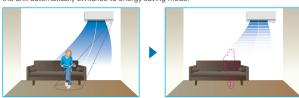
### 3D Fsee Sensor for M SERIES

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



### No occupancy energy-saving mode

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



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

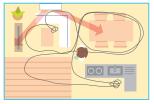
### **Indirect Airflow**

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



### Even Airflow \*LN Series only

Normal swing mode



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

### **Direct Airflow**

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



### Even airflow mode



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

### 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



Temperature distribution (°C) 16 18 20 22 24 26 28

Conventional cooling mode



### Demand Function (Onsite Adjustment)

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

[Example: Power Inverter Series]

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

SW7-1	SW2	SW3	Energy consumption
	OFF	OFF	100%
ON	ON	OFF	75%
ON	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.

### <del>∿ոս</del> 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

# 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

### Bacteria

<LN series> Neutralizes 99% of Staphylococcus aureus in 162 minutes in a 25 m<sup>3</sup>

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<sup>3</sup> 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 m³ test space. Test No 28-002

tested by vrc.center, SMC

<AY series 25-50> Neutralized 99.8% of SARS-CoV-2 in 360 minutes.\*1

Test No.20KB070569 tested by Japan Textile Products Quality and Technology Center

Neutralizes 99% of Influenza A virus particles in 210.5minutes in a 25 m3 test space. Test No. R4-001

tested by National Hospital Organization Sendai Medical Center

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

Neutralizes 95.8% in one pass conversion

### Molds

<LN series> Neutralizes 99% of Penicillium citrinum in 135 minutes in a 25 m<sup>3</sup> 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<sup>3</sup> 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.\* 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<sup>2</sup> test space. In-Company Investigation

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

<AY series 15/20 > Neutralizes 90% of PM2.5 particles in one pass. Test No. LSRL\_21010\_G063 tested by Life Science Research Laboratory

### Dust

<LN series> Neutralizes 99.7% of dust and mites.\* 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)),\* 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

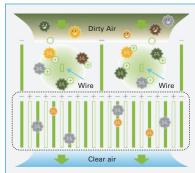
Dust, PM2.5 🥶 Viruses 🍟 Bacteria Mold
Ø Allergens

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

1st stage

### Image of Plasma Quad Plus





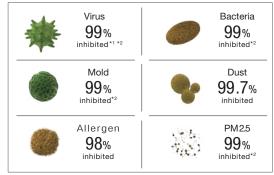
### Principle of Plasma Quad Plus

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

### Quad Connect (Optional Parts) Plasma

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





- \* 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		PQ attachment	*5 PQ box			
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* <sup>6</sup>	4,570g *7	8,700g	4,400g	

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

### Test Report Results 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	25m <sup>3</sup>	175min	99% inhibited* <sup>10</sup>	SMC Virus Research Center Japan (JAPAN)	R2-003
Bacteria	Staphylococcus Aureus	GB21551.6-2010	30m <sup>3</sup>	335min	99% inhibited* <sup>10</sup>	CHEARI (Beijing) Certification & Testing Co., Ltd.	WK-21-50161
Mold	Penicillium Citrinum	JEM1467	25m <sup>3</sup>	160min	99% inhibited* <sup>10</sup>	Life Science Research Laboratory (JAPAN)	LSRL- 51021E-E091
Allergen	Cat Fur and Pollen	Original	— i=8	-	98% inhibited* <sup>11</sup>	Institute of Tokyo Environmental Allergy (JAPAN)	No.T1606028
Dust	Dust and Mites	Original	*8	-	99.7% inhibited* <sup>11</sup>	Institute of Tokyo Environmental Allergy (JAPAN)	No.T1606028
PM 2.5	Cigarette smoke	JEM1467	25m <sup>®</sup>	300min	99% inhibited* <sup>10</sup>	Life Science Research Laboratory (JAPAN)	SRL-21010E- E091

<sup>\*8</sup> 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-ion

### 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

### **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 Barrie Coating

### **Dual Barrier Material**

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

### Deodorising Filter

### 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)

	М	on.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.	
5.00	ON	20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	
5:00			Automatically changes to high-power operation at wake-up time						
8:00 (0:00	OFF		OFF	OFF	OFF	OFF	ON 18°C	ON 18°C	
14:00 14:00			Automatically turned off during work hours					Midday is warmer, so the temperature is set lower	
1b:00									
18:00	ON	22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	ON 22°C	
55:00 50:00			Automatically turns on, synchronized with arrival at home				Automatically raises temperature setting to match time when outside-air temperature is low		
(during sleeping hours)	ON	18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	
		Automatically lowers temperature at bedtime for energy-saving operation at night							

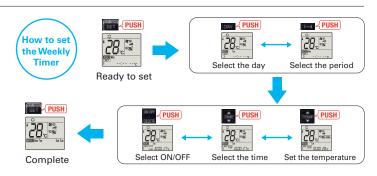
Settings

Pattern Settings: Input up to four settings for each day

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

### Easy set-up using dedicated buttons





- · Start by pushing the "SET" button and follow the instructions to set the desired patterns. Start by pushing the "SEI" 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.

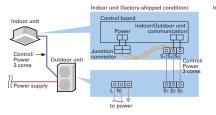
### Wiring Reuse of Existing Wiring

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

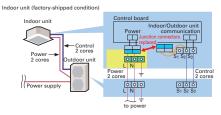
The wiring method has been improved, making it possible to use methods different from that utilized for control and power supply. Units are compatible with the dual harness control line/power line method and the separate power supply method. Using a power supply terminal kit, wire can be efficiently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

\*Optional. Usage may be limited due to wiring type diameter.

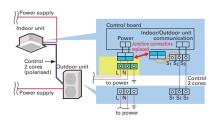
### Single Harness Control/Power Line Method (Current method)



### **Dual Harness Control Line/Power Line Method**



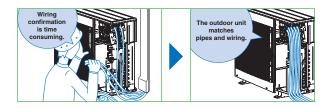
### Separate Power Supply Method



### Wiring/Piping Correction Function\*

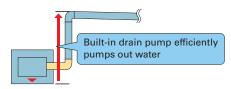
The push of a single button is all that is required to confirm that piping and wiring are properly connected. Corrections are made automatically if a wiring error is detected, eliminating the need for complicated wiring confirmation work when expanding the number of rooms served.

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



### **Drain Pump**

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





Flare connection to cooling pipe work is possible.

### Pump Down Switch

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

### Outdoor unit control circuit board



### Pump Down Switch 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



### System Group Control

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



### M-NET Connection

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

### COMPO (Simultaneous Multi-unit Operation)

Multiple indoor units can be connected to a single outdoor unit. (Depending on the unit combination, connection of up to four units is possible; however, all indoor units must operate at the same settings.)



### **MXZ** Connection

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



### MELCloud (Wi-Fi Interface)

### MELCloud for fast, easy remote control and monitoring

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

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

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

### Key control and monitoring features

- Turn system on/off
- See status of operating & adjust set point
- 6 Live weather feed from your location Schedule timer - Set 7 day weekly schedule Error status
- Energy Consumption Monitoring











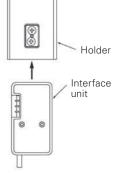
MELCloud uses the MAC-587IF interface

### 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.

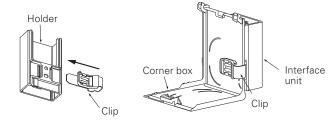


\*When mounting on the right side of the unit



### 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.









Bottom right



Left side



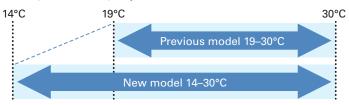
Bottom left

# **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.

<sup>\*</sup>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)

Collect model names an	d S/N
0 OU PUZ-ZM200YKA2	
IU1 PLA-ZM50EA2	
IU2 PLA-ZM50EA2	
IU3 PLA-ZM50EA2	
IU4 PLA-ZM50EA2	
Collect data: 🗸	
—Address +	S/N
Collect model names an	a s/N
OTTECT HOUSET Hailes an	u 5/N

Serial number display (example)

— А	aares	ঃ +			5/N
Col	lect	mode l	names	and	S/N
0 OU	1ZU0	10001			
IU1	1ZA0	10001			
IU2	1ZA0	10002			
IU3	1ZA0	10003			
IU4	1ZA0	10004			
Colle	ct da	ıta: 🗸	,		
— A	ddres	s +		ı	Mode I

### 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)

	E	rror	history	1/4
Err	or	Unt#	dd/mm/yy	
	E0		21/10/20	
	E0	0-1	20/12/20	AM 1:23
	E0		20/11/20	
	E0	@-1	20/10/20	PM12:01
Err	or his	tory	menu:🖎	
▼	' Page			De ete

### Preliminary error history (Sample)

Preli	minary	/ error	hist.	1/8
Error	Unt#	dd/mm/s	/У	
E0		21/10/2		
E0	0-1	20/12/3	20 AM	1:23
E0	0-1	20/11/3	20 PM1	0:55
E0	0-1	20/10/2	20 PM1:	2:01
Error hi	story	menu: Ĉ	<del>,</del>	
▼ Fau	⊢ 🛦		De	⊢l⊬ Ì

### 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)

	Energy	/ data
2019	<b>9</b> − 1− <b>■</b>	1234. 5kWh 1/6
0:3	80-123.4kWh	2:30 123.4kWh
1:0	00 123.4kWh	3:00 123,4kWh
1:3	30 123.4kWh	3:30 123.4kWh
2:6	10 123, 4kWh	4:00 123, 4kWh
Retu	ırn: <b>5</b>	
	Cate -	▼ Page ▲

### ●Daily (example)

	- 1	Energy	/ data		
2019-	- 1	1	23456.	7kWh	1/4
31	1234.	5kWh	27	1234.	5kWh
30	1234.	5kWh	26	1234.	5kWh
29	1234.	5kWh	25	1234.	5kWh
28	1234.	5kWh	24	1234.	5kWh
Retur	m:🐧				
V	Page	lack			

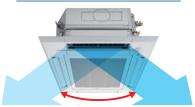
### Monthly (example)

E	nergy data	
▶2019- 1	123456. 7kWh	1/3
2018-12	123456, 7kWh	
2018-11	123456, 7kWh	
2018-10	123456, 7kWh	
2018- 9	123456, 7kWh	
View daily	data:✓	
▼ Ourson		

### **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.



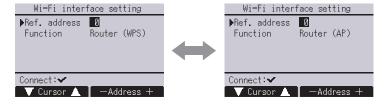
When 3DTotal Flow is equipped

### The horizontal airflow direction can be fixed for each outle Airflow direction set (Horiz)

#WS # 74 44

### 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.

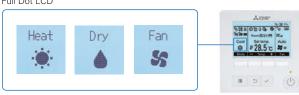


### Full Dot Liquid-crystal Display Adopted

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



### Control panel operation in fourteen different languages

Choose the desired language, among the following languages.

English	Spanish	Italian	Turkish
French	Greek	Portuguese	Swedish
German	Russian	Polish	Czech
Hangarian	Dutch		

### Temperature Control

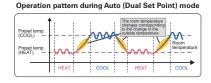


### Two preset temperatures

When the operation mode is set to the Auto (Dual Set Point) mode, two preset temperatures (one each for cooling and heating) can be set. Depending on the room temperature, indoor unit will

automatically operate in either the COOL or HEAT mode and keep the room temperature within the preset range.





<sup>\*</sup>Please refer to the function list on page 205-211 for the combination of the available units

### **Energy-efficient Control Operation Control Functions**



### Precise control of power consumption

The amount of power consumed in each time period is managed so that the demand value is not exceeded. The demand control function can be set to start and finish in 5-minute units.

Additionally, the level can be adjusted to 0, 50, 60, 70, 80 or 90% of maximum capacity, and up to 4 patterns can be set per day. Airconditioning operation is automatically controlled to ensure that electricity in excess of the contracted volume is not consumed.

#### ■ Setting pattern example

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

# 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 10minute 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





**Operation panels** 



Fan speed

12:005ul

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.





### $\textbf{Expandability} \quad \textbf{Smartphone / tablet App is available for setting, customize, and control.}$

### Bluetooth® low energy technology

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



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





#### Convenient BLE transmission functions for installation contractors

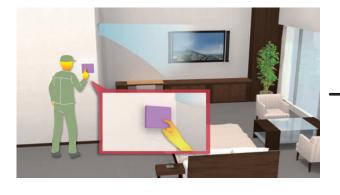
Initial setup for the remote controller can be easily performed using BLE transmission via a smartphone.

#### Previous model

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



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**

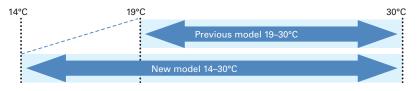
# Wireless Remote Controller PAR-SL101A-E

### **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.



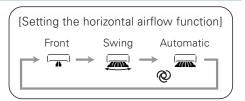


A MISSES

### **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
				7	



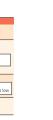
\* WIERE

### WeeklyTimer

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

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

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
5.00	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
800 800			Automatically change	s to high-power opera	tion at wake-up time		
1000	OFF	OFF	OFF	OFF	OFF	ON 18°C	ON 18°C
1200 1400		Automatically turned off during work hours				Midday is warmer, so the temperatur	
15:00							
1800	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C	ON 20°C
2000		Automatically turns on, synchronized with arrival at home			Automatically raises ten match time when outsi	nperature setting to de-air temperature is low	
(during	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C	ON 18°C
sleeping hours)		Automa	tically lowers tempera	ture at bedtime for ene	ergy-saving operation a	t night	





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

### Backlight

Backlight function incorporated, making screen easy to read in the dark. Even in dimly lit rooms, the screen can be seen clearly for trouble-free remote controller operation.

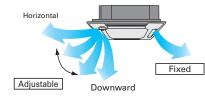




### **Individual Vane Settings**

The airflow directions of the four vanes can each be adjusted independently. Easily set the optimum airflow according to the room setting





### **Battery Replacement Sign**

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



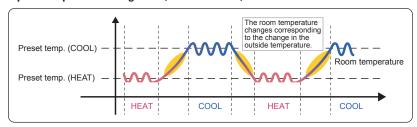
### **Dual Set Point**

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





### Operation pattern during Auto (Dual Set Point) mode



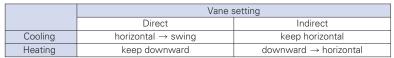
<sup>\*</sup> Only available for compatible models.

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

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









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

### **Basic Functions**

Functions	Button	Liquid crystal
OFF / ON	① OFF/ON	
Preset temperature	● TEMP ●	<b>88</b> .š
Mode	MODE	Cool Dry Heat Fan Auto Dual set point  *Dual Set Point function not operational first use.
Fan speed	FAN	4-Speed Auto
Vane angle	VANE M	5-step Swing Auto
Louver	WIDE VANE	Fixed Swing
3D i-see Sensor	i-see	Direct Indirect
Send sign		*
Battery replacement sign		
Function setting		[FUNCTION]
Test run		TEST
Self check		CHECK
Not available		N/A

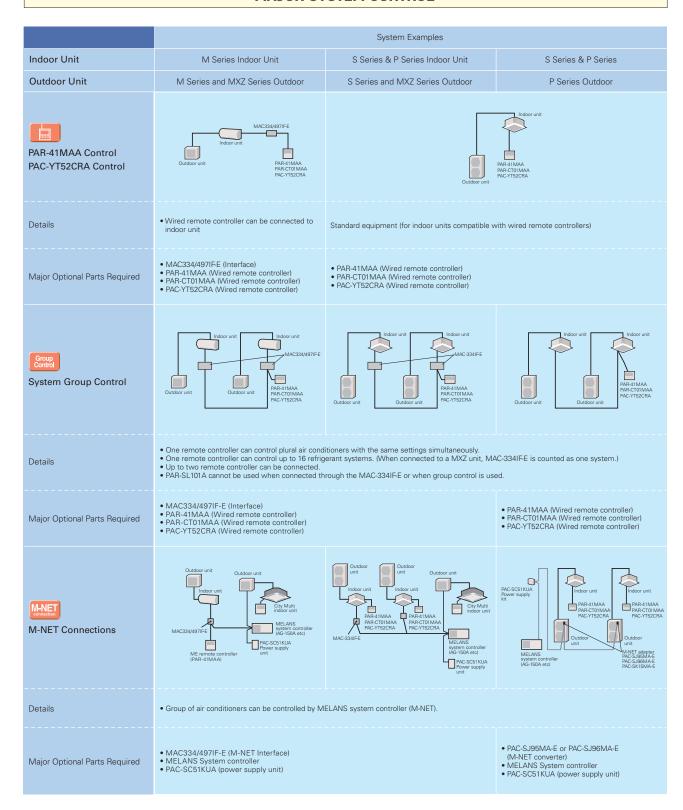
<sup>\*</sup>This remote controller is only compatible with the following models: SLZ-M15/25/35/50/60FA, PLFY-P15/20/25/32/40/50VFM-E1, PLA-ZM/RP35/50/60/71/100/125/140EA, PLFY-P20/25/32/40/50/63/80/100/125VEM-E

<sup>\*</sup>Functions available vary according to the model.

# SYSTEM CONTROL

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

### MAJOR SYSTEM CONTROL

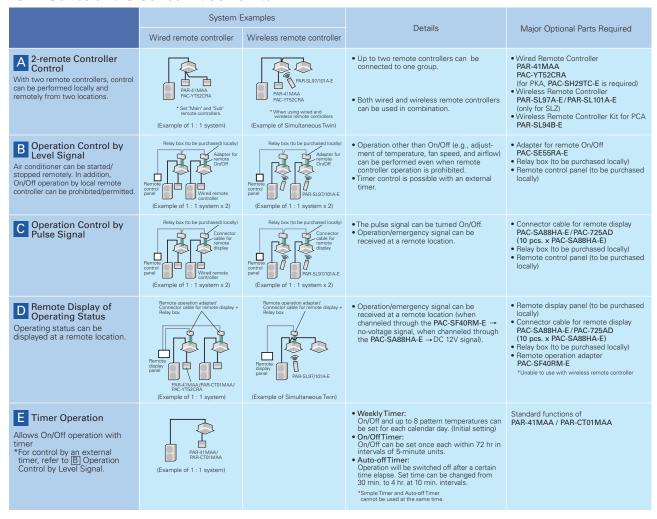


### **OTHERS**

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

	System Examples	Connection Details	Control Details	Major Optional Parts Required
Remote On/Off Operation  • Air conditioner can be started/ stopped remotely.  ( and ( ) can be used in combination)	MAC-334IFE Switch  Gutdoor unit  Remote control section (to be purchased locally)	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	On/Off operation is possible from a remote location.	MAC-334IF-E (Interface)     Parts for circuit such as relay box, lead wire, etc. (to be purchased locally)
2 Remote Display of Operation Status  • The On/Off status of air conditioners can be confirmed remotely.  (1) and [2] can be used in combination)	NAC-334IFE Power supply Indoor unit Resistance LED Outdoor unit (to be purchased locally)	Connect the interface to the air conditioner. Then connect the locally purchased remote controller to the terminal in the interface.	The operation status (On/Off) or error signals can be monitored from a remote location.	MAC-334IF-E (Interface)     Parts for circuit to be purchased locally (DC power source needed)     External power source (12V DC) is required when using MAC-334IF-E.

### For P Series and S Series Indoor Units



# **FUNCTION LIST (1)**

Category	Icon					M SERIES					
	5 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	
	O Outdoor unit Outdoor unit	MUZ-RZ	MUZ-RW	MUZ-LN	MUZ-FT	MUZ-AY	MUZ-AY	MUZ-AP	MUZ-EF	MUZ-BT	
echnology	DC Inverter	•	•	•	•	•	•	•	•	•	$\overline{}$
	Joint Lap DC Motor	•	•	•	•	•	•	•	•	•	
	Reluctance DC Rotary Compressor										$\Box$
	Heating Caulking (Compressor)	•	•	•	•	•	•	•	•	•	
	DC Fan Motor	•	•	•	•	•	•	•	•	•	
	PAM (Pulse Amplitude Modulation)	•	•	•	•	•	•	•	•	•	
	Power Receiver and Twin LEV Control										
	Grooved Piping	•	•	•	•	•	•	•	•	•	
i-see Sensor	Felt Temperature Control (3D i-see Sensor)	•	•	•							Г
	AREA Temperature Monitor	•	•	•							
Energy	Econo Cool Energy-saving Feature	•	•	•	•	•	•	•	•	•	
Saving	Standby Power Consumption Cut	•	•	•	•	•	•	•	•	•	
Air Quality	Plasma Quad Plus	•	•	•		•*1	*1				_
	Plasma Quad		-	-		-	-				
	Dual Barrier Coating	•	•	•							
	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				•	•	•	•	•	•	$\vdash$
Air Distribution	Self Clean Mode					•	•				
	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	•	•	•	•	•	•	•	•	•	П
2	Low-temperature Cooling	•	•	•	•	•	•	•	•	•	
	10°C Heating	•	•	•	•	•	•	•		•	
-	Low-noise Operation (Outdoor Unit)	•									Γ
	Night Mode		•	•	•	•	•	•		•	Г
-	Ampere Limit Adjustment										_
	Operation Lock (Indoor)	•	•	•	•	•	•	•		•	П
	Operation Lock (Outdoor)										Т
	Built-in Weekly Timer Function	•	•	•	•	•	•	•	•		
	Drive Mode Selector	•	•								_
System	PAR-41MAA Control *5	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
Control	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	
	M-NET Connection *5						Opt	Opt	Opt		_
	Wi-Fi Interface *6	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
		•	•			•					
Installation	Energy Consumption Monitoring through MELCloud										
IIIStallation	Cleaning-free Pipe Reuse	•	•	•	•	•	•	•	•	•	
	Wiring/Piping Correction Function										_
	Drain Pump										_
	Flare Connection	•	•	•	•	•	•	•	•	•	_
Maintenance	Self-Diagnosis Function (Check Code Display)	•	•	•	•	•	•	•	•	•	
	Failure Recall Function	•	•	•	•	•	•	•	•	•	

<sup>\*1</sup> 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.

		Me	ERIES		
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				S SERIES				P series			
	rici CO	Indoor unit	SLZ-M15/25/	35/50/60FA2 *1	SEZ-M25/35/5	50/60/71DA(L)2	SFZ-M25/35/ 50/60/71VA	PLA-ZM35/50/60/ 71/100/125/140EA2	PLA-M35	5/50/60/71/100/12	5/140EA2	
	ombination	Outdoor unit	SUZ-M	PUZ-ZM	SUZ-M	PUZ-ZM	SUZ-M	PUZ-ZM	PUZ-ZM	SUZ-M	PUZ-M	
Function	3D Total Flow	7						•	•		•	
merit-up	2+1 Back-up rota	tion		•		•		•	•		•	
		set temperature range						•	•		•	
		names and serial numbers		•		•		•	•		•	
			•	•	•	•	•	•	•	•	•	
	Display of power		_				_	-				
	Avoiding simmitar			•		•		•	•		•	
	Defrosting when p			•				•	•			
		operation is stopped		•		•		•	•			
	Collection of oper	ration data via MELCloud		•		•		•	•		•	
	Demand control v	ria MELCloud		•		•		•	•		•	
	Notification of poter	ntial abnormality via MELCloud		•		•		•	•		•	
Technology	DC Inverter		•	•	•		•	•	•	•	•	
	Joint Lap DC Mot	or	•		•		•	35-71	35-71	•	100	
	Magnetic Flux Vector	or Sine Wave Drive		•				•	•		•	
	Reluctance DC Rota	ary 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 Ampli		•	•	•		•	35-140	35-140	•	100-140V	
	Power Receiver and			•				35-140	35-250		100-1400	
	Grooved Piping	5011.01	•	•	•		•	35-250	35-250	•	100-230	
i-see Sensor		strol /2D i ana Canana										
I-see Sensor	Felt Temperature Con		Opt	Opt				Opt	Opt	Opt	Opt	
	AREA Temperatur		Opt	Opt				Opt	Opt	Opt	Opt	
Energy Saving	Demand Function	1						Opt	Opt		Opt	
Attractive	Pure White		•	•				•	•	•	•	
	Auto Vane		•	•				•	•	•	•	
Air Quality	Fresh-air Intake		•	•				•	•	•	•	
	High-efficiency Fi	lter						Opt	Opt	Opt	Opt	
	Oil Mist Filter											
	Long-life Filter		•	•				•	•	•	•	
	Filter Check Signal		•	•				•	•	•	•	
Air	Horizontal Vane		•	•				•	•	•	•	
Distribution	Vertical Vane											
	High Ceiling Mode	e	•	•				•	•	•	•	
	Low Ceiling Mode	9						•	•	•	•	
	Auto Fan Speed N		•	•	•		•	•	•	•	•	
Convenience	On/off Operation	Timer	•	•	•		•	•	•	•	•	
	Auto Changeover		•	•	•		•	•	•	•	•	
	Auto Restart		•	•	•		•	•	•	•	•	
	Low-temperature	Cooling	•	•	•		•	•	•	•	•	
			•		•		•					
Functions		tion (Outdoor Unit)		00.4401/				00.44014	CO 140V		•	
- In	Ampere Limit Adju	usunent		60-140V				60-140V	60-140V			
-	Operation Lock											
		and 2nd Stage Cut-in Functions		•				•	•		•	
	Dual Set Point *2			•				•	•		•	
System Control	PAR-41MAA Cont		Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt	
33	PAR-CT01MAA C	ontrol *3	Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt	
	PAC-YT52CRA C	ontrol *3	Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt	
	Centraliesd On/O	ff Control *3	Opt	Opt	Opt		Opt	Opt	Opt	Opt	Opt	
	System Group Co	ontrol *3	Opt	Opt	Opt		Opt	•	•	Opt	•	
	M-NET Connection	on *3	Opt		Opt		Opt	Opt	Opt	Opt	Opt	
	СОМРО			71-140				71-250	71-250		•	
Installation	Cleaning-free Pipe	e Reuse	•	•	•		•	•	•	•	•	
	Reuse of Existing	Wiring						Opt	Opt		Opt	
	Wiring/Piping Cor											
	Drain Pump		•	•	Opt			•*4	<b>*</b> 4	•*4	•*4	
	Pump Down Swite	ch			Орг			•	•		•	
	Flare Connection		•	•	•		•		•	-	•	
Maintage								•		•		
I -		nction (Check Code Display)	•	•	•		•	•	•	•	•	
I	Failure Recall Fun					1						

<sup>&</sup>quot;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.

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

# **FUNCTION LIST (3)**

Category	Icon					P SERIES					
	Indoor unit	PEAD-M35	5/50/60/71/100/125	i/140JA(L)2	PEA-M20	00/250LA2	PKA-M3	5/50LA(L)2	PKA-M60/7	71/100KA(L)2	
	lndoor unit  Outdoor unit	PUZ-ZM	PUZ-M	SUZ-M	PUZ-ZM	PUZ-M	PUZ-ZM	PUZ-M	PUZ-ZM	PUZ-M	
Function	3D Total Flow										
merit-up	2+1 Back-up rotation	•	•		•	•	•	•	•	•	
	Extended cooling set temperature range						•	•	•	•	
	Display of model names and serial numbers	•	•		•	•	•	•	•	•	
	Display of power consumption	•	•	•	•	•	•	•	•	•	_
	Avoiding simmitaneous 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	<u> </u>
	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	•	•	•	•	•	•	•	•	•	
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	Horizontal Vane						•	•	•	•	_
Distribution	Vertical Vane										
	High Ceiling Mode										_
	Low Ceiling Mode										
	Auto Fan Speed Mode	•	•	•	•	•	•	•	•	•	_
Convenience	On/off Operation Timer	•	•	•	•	•	•	•	•	•	
	Auto Changeover	•	•	•	•	•	•	•	•	•	_
	Auto Restart	•	•	•	•	•	•	•	•	•	
	Low-temperature Cooling	•	•	•	•	•	•	•	•	•	_
s	Low-noise Operation (Outdoor Unit)	•	•		•	•	•	•	•	•	
Functions	Ampere Limit Adjustment	60-140V					71-140V		60-140V		
臣	Operation Lock	23							23		
	Rotation, Back-up and 2nd Stage Cut-in Functions	•	•		•	•	•	•	•	•	
	Dual Set Point *1	•	•		•	•	•	•	•	•	
System	PAR-41MAA Control *2	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
Control	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	Ф	Орг	Opt	Ф	Орг	Opt	Opt	Opt	Opt	
	M-NET Connection *2	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	
	COMPO	71-250	Орг	Орг	Орг	Орг	71-200	Орг	71-250	Ф	
Installation	Cleaning-free Pipe Reuse	71-250	•	•	•	•	71-200	•	71-250	•	
o.canacion	Reuse of Existing Wiring	Opt	Opt	-			Opt	Opt	Opt	Opt	
	Wiring/Piping Correction Function	Орг	Орг				Ορί	Орг	Орг	Орг	$\vdash$
	Drain Pump		<b>•</b> *3		Ont	Out	Out	Ont	Ont	Ont	
	Pump Down Switch	• 3	• 3	●*3	Opt	Opt	Opt	Opt	Opt	Opt	
	Flare Connection								•	•	+
Maintanana -		•	•	•	•	•	•	•	•	•	$\vdash$
Maintenance	Self-Diagnosis Function (Check Code Display)	•	•	•	•	•	•	•	•	•	_
	Failure Recall Function	•	•	•	•	•	•	•	•	•	

<sup>11</sup> This function is only available with PAR-41MAA, PAC-YT52CRA, PAR-SL101A-E.
22 Please refer to "System Control" on pages for details.
3 PEAD-M JAL are not equipped with a drain pump.

			P SERIES			
PCA-M3	5/50/60/71/100/125	i/140KA2	PCA-M71HA2	PS/	A-M71/100/125/140	JKA I
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	0.1	Opt	Opt	Opt
Opt 71, 050	Opt	Opt	Opt 71.050	Opt 71.050	Opt	Opt
71-250	•	6	71-250	71-250	6	
Opt	Opt	•	Opt	Opt	Opt	•
Opt	Opt		Opt	Opt	Opt	
Opt	Opt	Opt				
Opt	Opt	Орг	•			
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
-		If a numarical figure		ura ia anhu availahla		nit of that consoits

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 s	SERIES
	Series	Lo-	std		Std			Std		Hyper H	leating	PXZ	Z-VG
	0.445	MXZ	-VF2		MXZ-VF4			MXZ-VF2		MXZ-\	/FHZ2	PXZ	'-VG
	Outdoor unit	2HA	ЗНА	2F	3F	4F	4F	5F	6F	2F	4F	4F75	5F85
echnology	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	•	•	•	•	•	•	•	•	•	•	•	•
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	Horizontal Vane												
Distribution													
	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	<b>•</b> *1	●*1	<b>•</b> *1	●*1	<b>•</b> *1	●*1	●*1	•	•
	Low-noise Operation (Outdoor)	•	•	•	•	•	•	•	•	•	•	•	•
	Night Mode												
	Ampere Linit Adjustment								•	•	•		
	Operation Lock (Indoor)												
runctions	Operation Lock (Outdoor)	•	•	•	•	•	•	•	•	•	•	•	•
-	Built-in Weekly Timer Function												
	-												
	Rotation, Back-up abd 2nd Stage Cut-in Fur	nctions											
	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	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	•*2	•*2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	<b>•</b> *2	•	•
Installation	Cleaning-free Pipe Reuse	••3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3	•*3		
	Reuse of Existing Wiring		•			90		-		30	30		
													_
	Wiring/Piping Correction Function	•	•	•	•	•	•	•	•	•	•	•	•
	Drain Pump												
	Pump Down Switch		•		•	•							
	Flare Connection	•	•	•	•	•	•	•	•	•	•	•	•
Maintenance	Self-Diagnosis Function (Check Code Displ	ay)	•	•	•	•	•	•	•	•	•	•	•
	Failure Recall Function	•	•	•	•	•	•	•	•	•	•	•	•

<sup>\*1</sup> 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.

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

### Major Optional Parts

Part Name	Description	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.	Plasma Quad Connect	Multi-functional Casement Casement for fresh-air intake and attaching the high-efficiency filter element (optional).	Indoor unit body Multi-functional casement
<b>Deodorising Filter</b> Captures small foul-smelling substances in the air.	Deodorising filter	Fresh-air Intake Duct Flange Flange attachment for adding a duct to take in fresh air from outside.	'For 4-way cassette units (PLA)
Air-cleaning Filter Removes fine dust particles from the air by means of static electricity.	Air-cleaning filter	Space Panel Decorative cover for the installation when the ceiling height is low.	Space Panel Panel
V Blocking Filter Inhibits 99% of adhered virus, and other harmful substances, such as bacteria, mold and allergen.	V Blocking Filter	Drain Pump Pumps drain water to a point higher than that where the unit is installed.	for ceiling-suspended units
Silver-ionized Air Purifier Filter Captures the bacteria, pollen and other allergens in the air and neutralises them.	Silver-ionized Air Purifier Filter	Decorative Cover  To be attached to the upper section of ceiling- suspended models for professional kitchen use. Helps prevent dust accumulation.	Decorative cover
Oil Mist Filter Element Filter element (12 pieces) that blocks the oil mist for ceiling-suspended models used in professional kitchens.	Filter frame Filter element	MA Interface Interface for connecting with the PAR-41MAA remote controller and PAC-YT52CRA.	MA & contact terminal interface
High-efficiency Filter Element Element for high-efficiency filter. Removes fine dust particles from the air.	Plug (for directing airflow)  High-efficiency filter element  *For 4-way cassette units (PLA)	System Control Interface Interface to connect with M-NET controllers.	System control interface
3D i-see Sensor Corner Panel for SLZ Corner panel holding the 3D i-see Sensor.	i-see Sensor corner panel	Wi-Fi Interface Interface enabling users to control air conditioners and check operating status via devices such as personal computers, tablets and smartphones.	WiFi interface Indoor unit Smartphone
3D Total Flow for PLA Casement equipped with horizontal louver.		Connector Cable  This product is an adaptor which inputs the incoming signals from an open/close switch to the air conditioner and outputs the on/off signals from the air conditioner.	Switch Indoor unit
3D i-see Sensor Corner Panel for PLA Corner panel holding the 3D i-see Sensor.	i-see Sensor comer panel	Power Supply Terminal Kit Terminal bed to change the power supply from outdoor power supply to separate indoor/ outdoor power supplies.	
Shutter Plate Plate for blocking an air outlet of the 4-way cassette (PLA) indoor unit.	Shutter Plate	Wired Remote Controller  Advanced deluxe remote controller with full- dot liquid-crystal display and backlight.  Equipped with convenient functions like night- setback.	Anni

Part Name	Description
MA Touch Remote Controller Remote controller with the full color touch display. Smartphone/Tublet App is available for setting, customize and control.	00.0°C
Simple Wired Remote Controller Remote controller with liquid-crystal display, and backlight function for operation in dark location.	Ans:
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.	Handheld unit
Wireless Remote Controller Signal Receiver Receives operation signals from the wireless remote controller handheld unit.	Signal receiver
Wireless Remote Controller Kit (Sender & Receiver) Remote controller handheld unit (signal sender) and receiver (signal receiver) for ceiling-suspended units.	Signal receiver
Control Holder Holder for storing the remote controller.	Control holder
Remote Sensor Sensor to detect the room temperature at remote positions.	Remote sensor
Remote On/Off Adapter Connector for receiving signals from the local system to control the on/off function.	Remote on/off adapter
Remote Operation Adapter Adapter to display the operation status and control on/off function from a distance.	Remote operation adapter
Connector Cable for Remote Display Connector used to display the operation status and control on/off function from a distance.	Connector cable for remote display  Brown Red Grand Grand Grand Green
<b>Distribution Pipe</b> Branch pipe for P Series simultaneous multi- system use, or to connect two branch boxes for PUMY.	Indoor unit Indoor unit Distribution pipe 'P Series with 2 Indoor units

\*P Series with 2 indoor units

Part Name	Description
Joint Pipe Part for connecting refrigerant pipes of different diametres.	Indoor unit Insulator Onste pipe
Liquid Refrigerant Dryer Removes water and minute particles from refrigerant pipes.	
Branch Box Outer Cover Casement for branch boxes.	Complete view  Branch box outer cover
Air 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.	Cap
Centralised Drain Pan Catches drain water generated by the outdoor unit.	Outdoor unit Centralised drain pan Base (local construction)
M-NET Converter Used to connect P Series A-control models to M-NET controllers.	Group remote controller  M.NET Converter  Power supply unit for transmit coble
Control/Service Tool  Monitoring tool to display operation and self-diagnosis data.	Control/service tool
Step Interface Interface for adjusting the capacity of inverter- equipped outdoor units.	Case interior  Installed in case
High-static Fan Motor Static pressure enhanced up to +30pa.	

### Optional Parts List <Indoor>

_	Option						Filter							System				
				ionized lier Filter			V Blocki	ing Filter			orising Iter	Plasma Quad Connect	Softdry Cloth	System Control Interface	MA Interface	Wi-Fi Interface		nector able
door Unit		MAC- 2360 FT	MAC- 2370 FT	MAC- 2380 FT	MAC- 2390 FT	MAC- 2450 FT	MAC- 2460 FT	MAC- 2470 FT	MAC- 2490 FT	MAC- 3000 FT-E	MAC- 3010 FT-E	MAC- 100 FT-E	MAC- 1001 CL-E	MAC- 334 IF-E	MAC- 497 IF-E	MAC- 587 IF-E	MAC- 1702 RA-E	MAC- 1710 RA-E
Wall -	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)								•		•		•	•	•		•	•
Ī	MSZ-FT25VG														•	●,3	•	
	MSZ-FT35VG							•				•		•	•	●.3	•	•
	MSZ-FT50VG							•				•		•	•	●,3	•	•
	MSZ-AY15VGK(P)							<b>●</b> *1				<b>•</b> *2		•		●*3	•	
	MSZ-AY20VGK(P)							<b>●</b> *1				• '2		•	•	●,3	•	•
	MSZ-AY25VGK(P)							@*1				*2		•	•	• 3	•	•
_	MSZ-AY35VGK(P) MSZ-AY42VGK(P)							●*1 ●*1				*2 *2		•	•	● '3	•	•
	MSZ-AY42VGK(P) MSZ-AY50VGK(P)				<del>                                     </del>		<del>                                     </del>	011				2		•	•	9.3	•	•
	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 MSZ-BT25VG							•				•		•	•	●,3 ●,3	•	•
<u> </u>	MSZ-BT25VG MSZ-BT35VG							•				•		•	•	9.3	•	•
	MSZ-BT50VG							•				•		•	•	.3	•	•
	MSZ-HR25VF							•				•		•	•	.3	•	•
<u> </u>	MSZ-HR35VF							•				•		•	•	●,3	•	•
	MSZ-HR42VF							•				•		•	•	●,3	•	•
-	MSZ-HR50VF							•				•		•	•	●,3	•	
_	MSZ-HR60VF						1	•				•		•	•	●,3	•	•
	MSZ-HR71VF							•				•		•	•	●.3	•	•
	MSZ-DW25VF							•				•		•	•	●*3 ●*3	•	•
	MSZ-DW35VF MSZ-DW50VF				-		-	•				•		•	•	9.3	•	•
	MSY-TP35VF							•							•	.3	•	•
_	MSY-TP50VF							•				•		•	•	-3	•	•
	MSZ-FH25VE2			•						•				•	•	9.3	•	•
_	MSZ-FH35VE2			•						•					•	.3	•	•
_	MSZ-FH50VE2			•						•				•	•	●,3	•	•
_	MSZ-SF15VA											•		•	•	●,3		
<u> </u>	MSZ-SF20VA											•		•	•	●,3		
	MSZ-SF25VE3		•									•		•	•	●,3		
	MSZ-SF35VE3		•									•		•	•	●.3		
	MSZ-SF42VE3 MSZ-SF50VE3		•									•		•	•	●,3		
	MSZ-SF50VE3 MSZ-GF60VE2	•	_				•					•		•	•	9.3		
_	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		•														•	•
	MFZ-HJ/1VA 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 0												•	<b>●</b> *3		
1-way	MLZ-KP25VG																	
1-way cassette	MLZ-KP25VG MLZ-KP35VG MLZ-KP50VG		•					•						•	•	•,3 •,3	•	•

<sup>\*\*1</sup> 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 R	lemote Co	ntroller	Wireless Remote Controller	Controller Holder					
PAR- 41MAA	PAR- CT01 MAA	PAC- YT52 CRA	MAC- SL100 M-E	MAC- 286 RH-E	MAC- 1200 RC-E	MAC- 1300 RC-E			
<b>●</b> *4	<b>•</b> '5	●*4				•			
• 4	*5	<b>●</b> *4				•			
•*4 •*4	*5 *5	• 4				•			
0'4	•*5	0'4				•			
•*4	*5	• 4							
●*4	<b>*</b> 5	●*4		<b>●</b> *6		•*7			
●*4	<b>6</b> *5	●*4		●*6		●*7			
<b>•</b> *4	<b>*</b> 5	<b>•</b> *4		<b>6</b> *6		•*7			
●*4	<b>6</b> *5	●*4		●*6		●*7			
●*4	●*3	●*4		●*6		●*7			
•*4	*5	<b>•</b> *4				•			
•°4	•*5 •*5	●*4 ●*4				•			
0'4	<b>6</b> *5	•4				•			
-4	*5	0.4							
0'4	•*5	0'4				•			
•*4	*5	•*4				•			
•*4	*5	●*4				•			
●*4	<b>*</b> 5	●*4				•			
<b>6</b> *4	<b>*</b> 5	<b>•</b> *4				•			
●*4	<b>*</b> 5	●*4				•			
●°4	•*5	●°4				•			
●°4	•*5	<b>•</b> *4				•			
●*4 ●*4	•*5 •*5	•°4				•			
*4	*5	0'4							
• 4	*5	0*4							
●*4	<b>*</b> 5	●'4							
<b>-</b> 4	<b>*</b> 5	●*4							
●*4	<b>*</b> 5	●*4							
<b>6</b> *4	<b>*</b> 5	●*4							
•*4	*5	•*4			•				
• 4	*5	●*4			•				
●°4	•*5 •*5	●°4			•				
•*4 •*4	•*5 •*5	•*4 •*4			•				
<b>6</b> *4	• *5	0'4			•				
0'4	• *5	• '4			•				
• 4	*5	• 4			•				
●'4	<b>*</b> 5	●'4			•				
<b>•</b> *4	<b>*</b> 5	•*4	•						
<b>6</b> *4	<b>*</b> 5	●*4	•						
●*4	<b>*</b> 5	●*4				•			
●*4	*5	<b>6</b> *4				•			
●°4	•*5 •*5	•°4				•			
●°4	•*5	0.4				•			
<b>•</b> '4	<b>6</b> *5	• 4				•			
<b>-</b> 4	<b>*</b> 5	0.4				•			
•*4	*5	• 4				•			
●*4	<b>*</b> 5	●*4				•			
●*4	<b>*</b> 5	●*4				•			
•*4	<b>*</b> 5	•*4				•			
●*4	•*5	●'4				•			
<b>6</b> °4	•*5 •*5	<b>•</b> *4				•			
•°4	*5 *5	•°4			•				
,	_ ,	-			•				
					•				
					•				
					•				
					•				
●*4	<b>*</b> 5	●*4				•			
•*4	*5	• '4				•			
●°4	<b>*</b> 5	●°4				•			
●°4	<b>6</b> *5	●°4				•			
•*4 •*4	*5 *5	•*4 •*4				•			
• 4	• '5	• 4							
<b>1</b> 4	*5	0'4				•			
*4	*5	•*4							
•*4	*5	• '4				•			
●*4	<b>6</b> *5	●*4				•			
<b>*</b> 4	<b>*</b> 5	●*4				•			

### Optional Parts List < Indoor>

	Option	Oil Mist	Long							Filt										
		Filter Element	Life			nent		*4			ocking f		1				Filter Bo	×		
door Unit		PAC- SG38 KF-E	PAC- KE85 LAF	PAC- SH59 KF-E	PAC- SH88 KF-E	PAC- SH89 KF-E	SH90	PAC- SK53 KF-E	PAC- SK54 KF-E	PAC- SK55 KF-E	PAC- SK56 KF-E	PAC- SK57 KF-E	MAC- 2470 FT-E	MAC- 1416 FT-E	PAC- KE92 TB-E	PAC- KE93 TB-E	PAC- KE94 TB-E	PAC- KE95 TB-E	PAC- KE250 TB-F	
4-way	SLZ-M15FA2																			
cassette	SLZ-M25FA2																			
	SLZ-M35FA2																			
	SLZ-M50FA2																			
	SLZ-M60FA2								•											
Ceiling -	SEZ-M25DA(L)2																			
conceald	SEZ-M35DA(L)2																			
	SEZ-M50DA(L)2																			
	SEZ-M60DA(L)2																			
	SEZ-M71DA(L)2																			
Concealed	SFZ-M25VA																			
floor standing																				
	SFZ-M35VA																			
	SFZ-M50VA																			
	SFZ-M60VA																			
4	SFZ-M71VA																			
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 -	PEAD-M35JA(L)2																			
conceald	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																			
mounted	PKA-M50LA(L)2																			
	PKA-M60KA(L)2																			
	PKA-M71KA(L)2																			
	PKA-M100KA(L)2																			
Ceiling -	PCA-M35KA2																			
suspended	PCA-M50KA2																			
	PCA-M60KA2																			
	PCA-M71KA2					•					•									
	PCA-M100KA2																			
	PCA-M125KA2						•					•								
	PCA-M140KA2																			
	PCA-M71HA2																			
Floor -	PSA-M71KA																			
standing																				
	PSA-M100KA																			
	PSA-M125KA																			

<sup>\*1 3</sup>D 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), Plasma Quad Connect(PAC-SK51FT-E), Auto elevation panel(PLP-6EAJ, PLP-6EAJE), 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-SK56KF-E) cannot be used with High-efficiency filter element(PAC-SH89KF-E).
\*6 V Blocking Filter(PAC-SK56KF-E) cannot be used with High-efficiency filter element(PAC-SH89KF-E).
\*8 Shutter Plate(PAC-SJ37SP-E) cannot be used with High-efficiency filter element(PAC-SH89KF-E).
\*8 Shutter Plate(PAC-SJ37SP-E) cannot be used with High-efficiency filter element(PAC-SH89KF-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).

					Plasm	a Quad Co	onnect						3D i	-see	3D			
		a Quad C	onnect		Attach	ment for [	Ducted		Во	x for Duc	ted		Ser Co	nsor rner nel	Total Flow unit	Shutter Plate	Insulation kit	Multi- functional Casement
MAC- 100 FT-E	PAC- SK51 FT-E	SLP- FAP	SLP- FALP	SLP- FALMP2	PAC- HA11 PAR	PAC- HA31 PAR	PAC- HA31 PAU	PAC- KE91 PTB-E	PAC- KE92 PTB-E	PAC- KE93 PTB-E	PAC- KE94 PTB-E	PAC- KE95 PTB-E	PAC- SF1 ME-E	PAC- SE1 ME-E	PLP- U160 ELR-E	PAC- SJ37 SP-E	PAC- SK36 HK-E	PAC- SJ41 TM-E
	•													•	•	•	•	
															•			
																•		
																•		
	•													•	•	•	•	
	•													•	•	•	•	
									•									
•																		
•																		

<sup>\*10</sup> 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>

			Fresh-a	ir Intake									System		
			Dι	uct nge	Space Panel			Drain	Pump			Decorative Cover	Control Interface	Wi-Fi Interface	
In	door Unit		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	
	4-way	SLZ-M15FA2	01 2	01 2	7.0 L	DIWI E	DIVI E	DIVI E	DIVI E	DIVI E	DIVITI	I KO E		•	
	cassette	SLZ-M25FA2											•	•	
		SLZ-M35FA2											•	•	
		SLZ-M50FA2													
		SLZ-M60FA2											•	•	
	Ceiling -	SEZ-M25DA(L)2											•	•	
'n	conceald	SEZ-M35DA(L)2								•			•		
SERIES		SEZ-M50DA(L)2								•					
S S		SEZ-M60DA(L)2								•			•		
		SEZ-M71DA(L)2								•			•		
	Concealed	SFZ-M25VA											•	•	
	floor standing	SFZ-M35VA											•		
		SFZ-M50VA											•		
		SFZ-M60VA													
		SFZ-M71VA											•	•	
	4-way	PLA-ZM35EA2											•1		
	cassette	PLA-ZM50EA2	•										•11		
		PLA-ZM60EA2											*1		
		PLA-ZM71EA2	•										•1		
		PLA-ZM100EA2											•11		
		PLA-ZM125EA2	•										•1		
		PLA-ZM140EA2											•1		
		PLA-M35EA2	•										•1		
		PLA-M50EA2											•1		
		PLA-M60EA2											•"1		
		PLA-M71EA2											0"1		
		PLA-M100EA2											•1		
		PLA-M125EA2													
		PLA-M140EA2	•		•										
	Ceiling -	PEAD-M35JA(L)2											•*1		
	conceald	PEAD-M50JA(L)2											•1		
		PEAD-M60JA(L)2											•1		
		PEAD-M71JA(L)2											•"1		
		PEAD-M100JA(L)2											*1		
-		PEAD-M125JA(L)2											•11		
		PEAD-M140JA(L)2											•1		
		PEA-M200LA2									•		•1		
		PEA-M250LA2									•		•11		
	Wall -	PKA-M35LA(L)2											*1		
	mounted	PKA-M50LA(L)2											•11		
		PKA-M60KA(L)2											•1		
		PKA-M71KA(L)2											*1		
		PKA-M100KA(L)2											•11		
	Ceiling -	PCA-M35KA2											•1		
	suspended	PCA-M50KA2											•1		
		PCA-M60KA2											•1		
		PCA-M71KA2											•11		
		PCA-M100KA2													
		PCA-M125KA2													
		PCA-M140KA2													
		PCA-M71HA2													
	Floor -	PSA-M71KA													
														_	
	standing	PSA-M100KA													
	standing	PSA-M100KA PSA-M125KA												•	

Part																		1	
Proceedings						Wi	red Remo	te Contro	1		Wire	less Rem	note Cont	roller			D	Domete	Connector
NC   NC   NC   NC   NC   NC   NC   NC		Power S	upply Ter	minal Kit			Controller		Block kit for	Signal	Sender	Sig	nal Rece	iver	Kit (Sender &		On/Off	Operation	Remote
Note	PAC-	PAC-	PAC-	PAC-	PAC-	PAR-	PAR-	PAC-		PAR-	PAR-	PAR-	PAR-	PAR-	· ·	PAC-	PAC-	PAC-	PAC-
	1		SG96		1				1			l	1					1	
	HR-E	HR-E	HR-E	HR-E	HR-E	MAA	MAA	CRA	TC-E	A-E		CA-E	FA	FA-E	B-E	TS-E	RA-E		HA-E
								•			•*4		•				•	*2	
DAZ   DAZ																-		*2	
												_							
						DA2	DA2	DA2											
DAZ   DAZ						DA2	DA2	DA2											
						DA2	DA2	DA2			•*4							•*2	
						DA2	DA2	DA2			•*4							•*2	
						DA2	DA2	DA2											
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																		•*2	
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											•*4							•*2	
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							_												
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							_												
						•*3	•3	•,3											
											•*4							•*2	
															•				
																		•*2	
											•*4							•*2	
												_					_		
**************************************												_					-		_
			_																
*4 Group control cannot be used.			_								-4							<b>•</b> *2	

### Optional Parts List <Outdoor>

	Option			Distribu	tion Pipe			Unit	Heit	Lloit	Joint		Hait	Heit	Heit	Liquid	Refrigera	nt Drye
		For (50	Twin :50)	For <sup>-</sup> (33:3	Triple 33:33)	For Qu (25:25	adruple :25:25)	> Pipe	Unit ø9.52 > Pipe ø12.7	Unit ø15.88 > Pipe ø19.05	Unit ø9.52 > Pipe ø15.88	> Pipe	ø9.52 > Pipe	> Pipe	ø12.7 > Pipe	For Pipe ø6.35	For Pipe ø9.52	For Pipe ø12.
Outdoor Unit		MSDD- 50TR-E	MSDD- 50WR-E	MSDT- 111R-E	MSDT- 111R3-E	MSDF- 111R-E	MSDF- 111R2-E	PAC- SG72 RJ-E	PAC- SG73 RJ-E	PAC- SG75 RJ-E	PAC- SG76 RJ-E	PAC- 493 PI	Flare MAC- A454	MAC- A455	MAC- A456 JP-E	PAC- SG81 DR-E	PAC- SG82 DR-E	PAC SG8 DR-I
RZ Series	MUZ-RZ25VU										TIO-L		01 -L	JI -L	01 -L			
	MUZ-RZ25VUHZ																	
	MUZ-RZ35VU MUZ-RZ35VUHZ																	<u> </u>
	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																	L
FT Series	MUZ-FT25VGHZ MUZ-FT35VGHZ																	
	MUZ-FT55VGHZ MUZ-FT50VGHZ																_	-
A Series	MUZ-AY15VG																	$\vdash$
	MUZ-AY20VG																	
	MUZ-AY25VG																	
	MUZ-AY25VGH																	
	MUZ-AY35VG MUZ-AY35VGH																	
	MUZ-AY33VGH MUZ-AY42VG																	
	MUZ-AY42VGH																	
	MUZ-AY50VG																	
	MUZ-AY50VGH																	
	MUZ-AP60VG																	
E Series	MUZ-AP71VG2 MUZ-EF25VG																_	┢
L Geries	MUZ-EF25VGH																	
	MUZ-EF35VG																	
	MUZ-EF35VGH																	
	MUZ-EF42VG MUZ-EF50VG																	
BT Series	MUZ-BT20VG																	<del>-</del>
21 001100	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-FH35VE MUZ-FH35VEHZ																	$\vdash$
	MUZ-FH50VE																	
	MUZ-FH50VEHZ																	
S Series	MUZ-SF25VE																	
	MUZ-SF25VEH MUZ-SF35VE																_	
	MUZ-SF35VEH																	
	MUZ-SF42VE																	
	MUZ-SF42VEH																	
	MUZ-SF50VE																	
G Series	MUZ-SF50VEH MUZ-GF60VE																	
G Octios	MUZ-GF60VE MUZ-GF71VE																	
W Series	MUZ-WN25VA																	
	MUZ-WN35VA																	
D Series	MUZ-DM25VA																	
H Series	MUZ-DM35VA MUZ-HJ25VA																	
11 Genes	MUZ-HJ25VA MUZ-HJ35VA																-	$\vdash$
	MUZ-HJ50VA																	
	MUZ-HJ60VA																	
	MUZ-HJ71VA																	
Compact	MUFZ-KW25VGHZ																	
floor	MUFZ-KW35VGHZ MUFZ-KW50VGHZ	-	-		-												<del></del>	$\vdash$
	MUFZ-KW50VGHZ MUFZ-KW60VGHZ																	

SOC   SO   SO   SO   SOC   S					Air C	Outlet G	Guide				Air Pro	otection	Guide	Dra	ain Soc	ket	р	Freeze- reventio Heater Drain P	n	Centra	lized Dra	ain Pan	M-NET Adapter	M-N Conv	NET rerter	Control/ Service Tool	Step Interface 1 PC board w/attach- ment kit	Insul fo Accun	ation or nulator	High Static Fan Motor
		890	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	646	SG63	SG64	SH97	IF01	PAC- SJ96 MA-E	PAC- SJ95 MA-E	PAC- SK52ST	IF012	MAC- 892 INS-E	MAC- 893 INS-E	PAC- SJ71 FM-E
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### Optional Parts List <Outdoor>

Outdo S SERI (R32)		Option						Pipe			l Dic	aioni	ripe/i	чеаа	er (Jo	oint)						Joint	t Pipe	•					Li	iquid R	efrigera	nt Dryer	1				- 1	
S SERI					Twin :50)		For (33:3	Triple 33:33)	Quad (25:25	or fruple :25:25)	0 2-	n cas f usin brand	ng ch	Branch Pipe	Hea	ader	>	Unit ø : Pipe ø	>		it ø6. > e ø9.			it ø9.5 > be ø12		>	,	Unit ø1 > Pipe ø1	l l	For pipe 6.35	For pipe ø9.52	For pipe ø12.7			ir Outl Guide			
S SERI							MSDT-		MSDF-	MSDF-	FIa MSDD-	are MSDD-	Brazing MSDD-	CMY- Y62-	CMY- Y64-	CMY-	PAC-		PAC-	PAC-	PAC-	PAC-	Fla MAC-		PAC-	MAC-F	PAC-	MAC-P	AC- S	PAC-	PAC- SG82	PAC- SG85	MAC- 890	MAC- 881	MAC- 882	MAC- 856		
		SUZ-M25VA	-E	-E	-E	-E	-E	-E	-E	-E	50AR-E	50AR2-E	50BR-E	G-E	Y64- G-E	G-E	RJ-E	SG76 RJ-E	SK90 RJ-E	493 PI	SG72 RJ-E	SJ87 RJ-E	JP-E	SG73 RJ-E	SJ88 RJ-E	A455   S JP-E   F	SK88 RJ-E	MAC- P. A456 S JP-E R	J-E	R-E	DR-E	DR-E	SG-E	SG	SG	SG		_
		SUZ-M35VA																								•								•				
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		SUZ-M60VA																																			•	
10-		SUZ-M71VA																																			•	_
	wer erter	PUZ-ZM35VKA2																				•							_	•								
(R3	32)	PUZ-ZM50VKA2 PUZ-ZM60VHA2																				•			•						•							
	-	PUZ-ZM71VHA2		•																					•						•							
		PUZ-ZM100VDA		•				•																	•						•							
		PUZ-ZM100YDA		•				•																	•						•							
		PUZ-ZM125VDA		•				•		•																					•							
		PUZ-ZM125YDA		•				•		•															•						•							
S		PUZ-ZM140VDA PUZ-ZM140YDA		•				•		•															•			-	+		•							_
SERIES		PUZ-ZM200YKA2				•		•		•															•				$\dashv$		•							
۵		PUZ-ZM250YKA2				•		•		•																						•						_
		PUZ-M100VKA2		•																											•							
Inv (R3	verter 32)	PUZ-M125VKA2		•																											•							
		PUZ-M140VKA2		•				•																							•							
		PUZ-M100YKA2		•																											•							
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MXZ		MXZ-2F33VF4																																•				
SERIES (R32)	3	MXZ-2F42VF4																																•				
(. 102)	-	MXZ-2F53VF(H)4																					•											•				
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		MXZ-3F54VF4 MXZ-3F68VF4																•		•			•													•		
		MXZ-4F72VF4																•		•			•			•		•								•		
		MXZ-4F80VF4																•		•			•			•		•	_							•		
		MXZ-4F83VF2																•		•			•			•		•										
		MXZ-4F83VFHZ2																•		•			•			•		•										
	-	MXZ-5F102VF2																•								•		•										
		MXZ-6F120VF2																•		•			•			•		•						•				
		MXZ-2HA40VF2 MXZ-2HA50VF2																											_					•				_
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PUM		PUMY-SP112VKM2(-BS)									•		•	•	•	•										П			$\neg$						П	$\Box$		_
SERIES (R410A	()	PUMY-SP112YKM2(-BS)									•		•	•	•	•																						
		PUMY-SP125VKM2(-BS)									•		•	•	•	•												_										
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		PUMY-SP140VKM2(-BS) PUMY-SP140YKM2(-BS)									•		•	•	•	•																						
	-	PUMY-P112VKM6(-BS)									•		•	•	•	•	•							•														_
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		PUMY-P140VKM6(-BS)									•		•	•	•	•	•							•														
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	-	PUMY-P250YBM2(-BS)									•		•	•	•	•																						
	-	PUMY-P300YBM2(-BS)									•		•	•	•	•													1									
PUM	Y	PUMY-SM112VKM(-BS)										•	•	•	•	•			•			•			•		•		•									
SERIES (R32)	_	PUMY-SM112YKM(-BS)										•	•	•	•	•			•			•			•		•	_	•									
,	-	PUMY-SM125VKM(-BS)										•	•			•			•									_	•									
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	-	PUMY-SM140VKM(-BS) PUMY-SM140YKM(-BS)										•	•	•	•	•			•			•			•		•	_	•									
		PXZ-4F75VG										-	-		-	-							•			•		•	-							•		
PXZ	2	PXZ-5F85VG																•		•			•			•		•										

	Branch Box	Reactor Box				Different Dia	ameter Joint			
	Outer Cover	neactor box	ø9.52>ø12.7	ø12.7>ø9.52	ø12.7>ø15.88	ø6.35>ø9.52	ø9.52>ø15.88	ø15.88>ø19.05	ø15.88>ø22.2	ø15.88>ø25.4
	PAC-AK350CVR-E	PAC-RB01BC	MAC-A454JP	MAC-A455JP	MAC-A456JP	PAC-493PI	PAC-SG76RJ-E	PAC-SG75RJ-E	PAC-SG71RJ-E	PAC-SG77RJ-E
PAC-MK34BC (Flare)	•	•	•	•	•	•	•	•	•	•
PAC-MK54BC (Flare)	•	•	•	•	•	•	•	•	•	•

	S&A kit						Different Diamete	er Joint				
	South Kit	ø6.35	->ø9.52	ø9.52-	->ø12.7	ø15.88>ø9.52	ø15.88>ø12.7	ø12.7	->ø9.52	ø12.7>	>ø15.88	
	PAC-SK60SA-E	PAC-SJ87RJ-E	PAC-SG77RJB-E	PAC-SJ88RJ-E	PAC-SG78RJB-E	PAC-SK82RJ-E	PAC-SK85RJ	PAC-SK88RJ-E	PAC-SG79RJB-E	PAC-SK89RJ-E	PAC-SG80RJB-E	
PAC-MMK40BC (Flare)	•	•		•		•	•	•		•		
PAC-MMK60BC (Flare)	•	•		•		•	•	•		•		
PAC-MMK60BCB (Brazing)	•		•		•				•		•	

				t Gui				r Prote						in Soc					ze-pre (for [	Orain	Pan)				Dr	ntraliz ain Pa	an		M-NET Adapter		M-N Conv	erter		Control/ Service Tool	Ste Inter 1 PC t w/att men	face poard ach- t kit		nlator	Kit	IVIOLOI	Muffler	CON- NECTOR FOR DRAIN HOSE HEATER
MA 88 S	C- P 33 S G S	AC- F SJ07 S G-E S	PAC- SG59 SG-E	PAC- SH96 SG-E	PAC- SK22 SG-E	PAC- SL12 SG-E	PAC- SJ06 AG-E	PAC- SH63 AG-E	PAC- SH95 AG-E	PAC- SK21 AG-E	PAC- SL13 AG-E	PAC- SJ08 DS-E	PAC- SG60 DS-E	PAC- SG61 DS-E	PAC- SK27 DS-E	PAC- SL14 DS-E	MAC- 643 BH-E	MAC- 644 BH-E	MAC- 646 BH-E	PAC- 645 BH-E	PAC- 646 BH-E	PAC- SJ10 BH-E	PAC- SJ20 BH-E	PAC- SG63 DP-E	PAC- SG64 DP-E	PAC- SH97 DP-E	PAC- SJ83 DP-E	PAC- SL15 DP-E	PAC- IF01 MNT-E	PAC- SK15 MA-E	PAC- SJ96 MA-E	PAC- SJ95 MA-E	PAC- SL16 MA-E	PAC- SK52 ST	PAC- IF012 B-E	PAC-(S) IF013 B-E	MAC- 892 INS-E	MAC- 893 INS-E	PAC- LV11 M-J	PAC- I SJ71 FM-E	MAC- 001 MF-E	MAC- 062 RA-E
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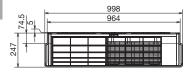
<sup>\*\*</sup>Please connect the muffler to the gas piping within 3 meters from the piping connection port of the outdoor unit. Please attach this if you are concerned about refrigerant noise.

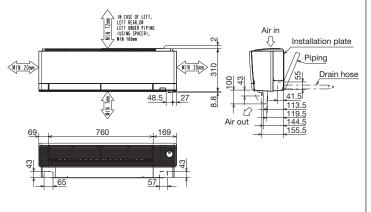
ø9.52	>ø15.88	ø9.52>ø6.35
PAC-SK90RJ-E	PAC-SG76RJB-E	PAC-SK91RJ-E
•		•
•		•

Unit: mm

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

### INDOOR UNIT

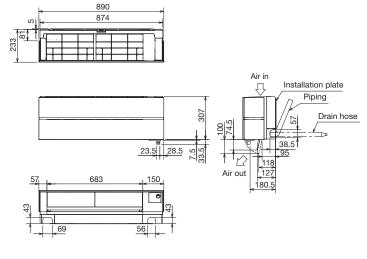


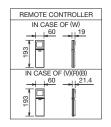




### MSZ-LN25VG2(W)(V)(R)(B) MSZ-LN35VG2(W)(V)(R)(B) MSZ-LN50VG2(W)(V)(R)(B) MSZ-LN60VG2(W)(V)(R)(B)

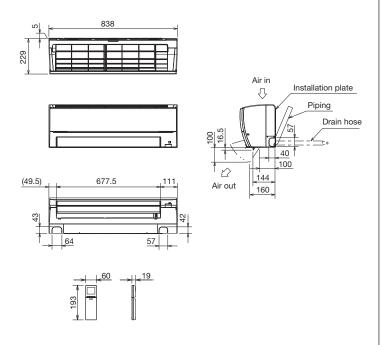
### INDOOR UNIT





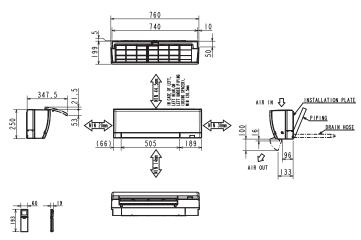
### MSZ-FT25VG MSZ-FT35VG MSZ-FT50VG MSZ-FT25VGK MSZ-FT35VGK MSZ-FT50VGK

### INDOOR UNIT



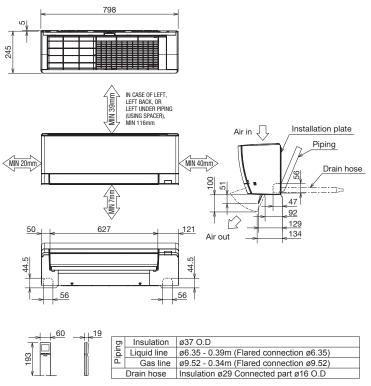
### MSZ-AY15VGK(P) MSZ-AY20VGK(P)

### **INDOOR UNIT**



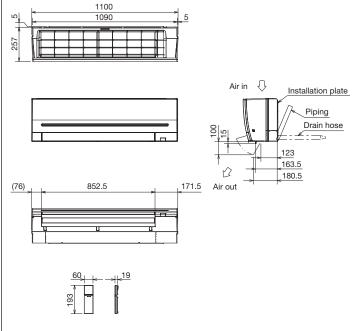
MSZ-AY25VGK(P) MSZ-AY50VGK(P) MSZ-AY35VGK(P) MSZ-AY42VGK(P)

### INDOOR UNIT



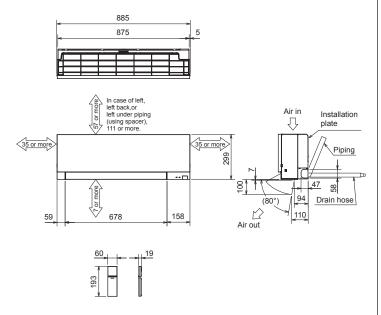
MSZ-AP60VG MSZ-AP71VG MSZ-AP60VGK MSZ-AP71VGK

### **INDOOR UNIT**



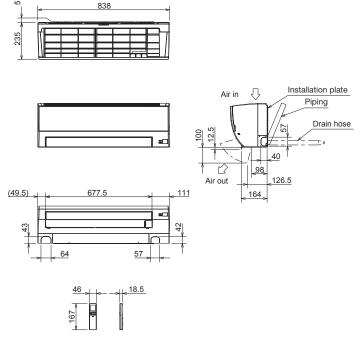
MSZ-EF18VG(W)(B)(S)
MSZ-EF25VG(W)(B)(S)
MSZ-EF42VG(W)(B)(S)
MSZ-EF42VG(W)(B)(S)
MSZ-EF18VGK(W)(B)(S)
MSZ-EF25VGK(W)(B)(S)
MSZ-EF25VGK(W)(B)(S)
MSZ-EF25VGK(W)(B)(S)
MSZ-EF42VGK(W)(B)(S)
MSZ-EF42VGK(W)(B)(S)

### INDOOR UNIT



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

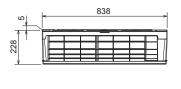
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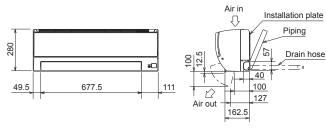


### Unit: mm

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

### **INDOOR UNIT**

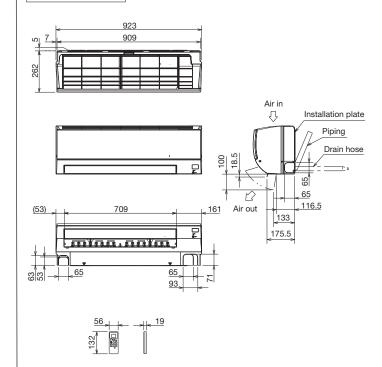






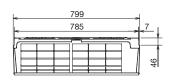
### MSZ-HR60VF(K) MSZ-HR71VF(K)

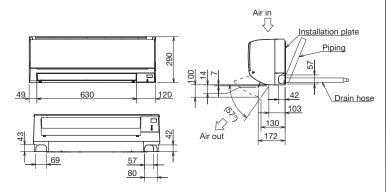
### INDOOR UNIT



### MSZ-DW25VF MSZ-DW35VF MSZ-DW50VF

### INDOOR UNIT





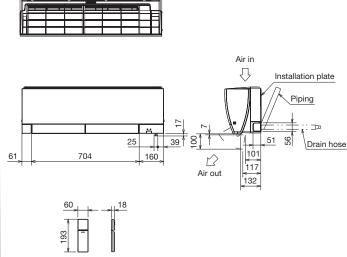


### MSZ-FH25VE2 MSZ-FH35VE2 MSZ-FH50VE2

### INDOOR UNIT

925

905



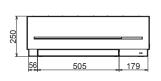
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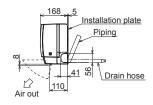
### Unit: mm

### MSZ-SF15VA MSZ-SF20VA

### INDOOR UNIT



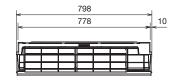


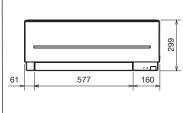




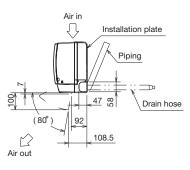
### MSZ-SF25VE3 MSZ-SF35VE3 MSZ-SF42VE3 MSZ-SF50VE3

### INDOOR UNIT



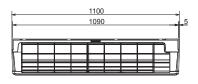


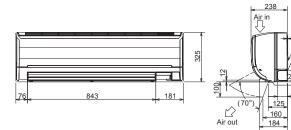




### MSZ-GF60VE2 MSZ-GF71VE2

### INDOOR UNIT



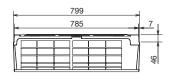


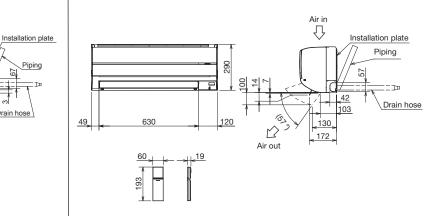


### MSZ-WN25VA MSZ-WN35VA

### INDOOR UNIT

Drain hose

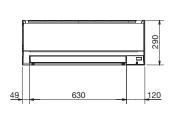


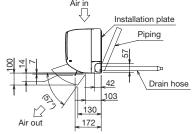


### MSZ-DM25VA MSZ-DM35VA

### INDOOR UNIT

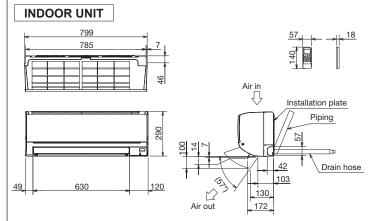




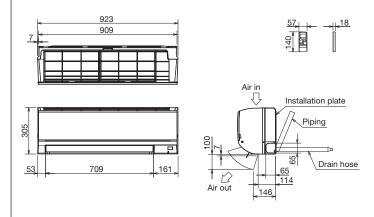




### MSZ-HJ25VA MSZ-HJ35VA MSZ-HJ50VA



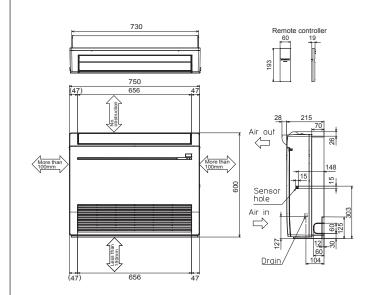
### MSZ-HJ60VA MSZ-HJ71VA MSY-TP35VF MSY-TP50VF



# MFZ-KT25VG MFZ-KT35VG MFZ-KT50VG MFZ-KT60VG INDOOR UNIT

## 

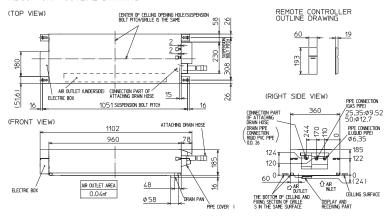
# MFZ-KW25VG MFZ-KW35VG MFZ-KW50VG MFZ-KW60VG INDOOR UNIT



### MLZ-KP25VG MLZ-KP35VG MLZ-KP50VG

### INDOOR UNIT

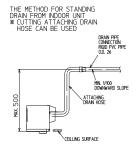
#### INDOOR UNIT OUTLINE DRAWING



### INDOOR UNIT DETAIL VIEW (TOP VIEW) CENTER OF CELLING OPENING HOLE/SUSPENSION BOLT PITCH/ GRILLE IS THE SAME 384 HOLE 308 BOLT صمظ 88 AIR OUTLET 960 1051 SUSPENSION BOLT PITCH 1160 CELLING OPENING HOLE 1200 OUTLINE OF GRILLE (FRONT VIEW) SUSPENSION BOLT MIO 185 CEILLING SURFACE CELLING SURFACE

# GRILLE OUTLINE DRAWING (MLP-444W) 967 MAX PROTRISION DRESION 364 1200 24 12 172.4 166.5 13.8 14.6 15.7 166.5 173.4 166.5 173.4 166.5 173.4 174.4 175.4 176.5 176.8

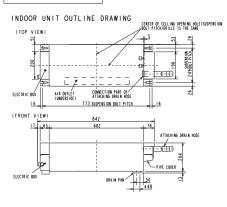
		KP25/35VF	KP50VF
EXTENSION	LIQUID PIPE O.D.	Ø6	.35
PIPE	GAS PIPE O.D.	ø9.52	ø12.7
CONNECTIONS	LIQUID PIPE	FLARED CO Ø6	
OF PIPE	GAS PIPE	FLARED CONNECTION Ø9.52	FLARED CONNECTION Ø12.7
DRAIN HOSE		HEAT INSULATER O.D. CONNECT Ø32 Ø2	
DRAIN PIPE CO	INNECTION	RIGID PVC PIPE	O.D. 26

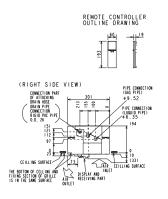


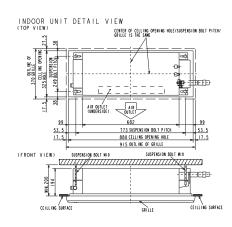
NOTE1. CUTTING ATTACHING DRAIN HOSE CAN BE USED.

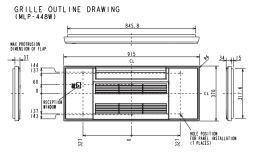
#### MLZ-KY20VG

### **INDOOR UNIT**

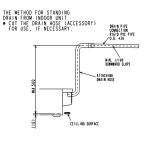






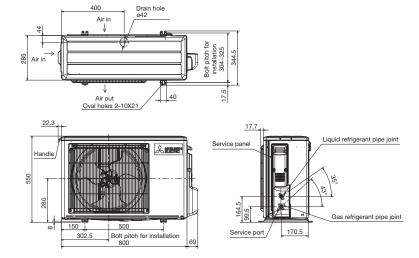


EXTENSION PIPE	LIQUID PIPE O.D.	ø6.35		
	GAS PIPE O.D.	ø9.52		
CONNECTIONG OF PIPE	LIQUID PIPE	FLARED CONNECTION \$6.35		
	GAS PIPE	FLARED CONNECTION ♦9.52		
DRAIN HOSE		HEAT INSULATER O.D. COMMECTION I.D. EFFECTIVE LENGTH		
		ø32 ø25 480		
DRAIN PIPE CONNECTION RIGID PVC PIPE O.D. \$26				
OTEL. CUT 1	THE DRAIN HO	SE (ACCESSORY) FOR USE, IF NECESSARY.		



MUZ-LN25VG	MUZ-LN25VGHZ	
MUZ-LN35VG	MUZ-LN35VGHZ	
MUZ-AY20VG		
MUZ-AY25VG	MUZ-AY25VGH	
MUZ-AY35VG	MUZ-AY35VGH	
		14117 LID 401/E
MUZ-AY42VG	MUZ-AY42VGH	MUZ-HR42VF
MUZ-FT25VGHZ		<b>MUZ-HR50VF</b>
MUZ-FH25VE	MUZ-FH35VE	MUZ-DW50VF
MUZ-FH25VEHZ	MUZ-FH35VEHZ	
MUZ-EF25VG	MUZ-EF25VGH	
MUZ-EF35VG	MUZ-EF35VGH	<b>MUY-TP50VF</b>
MUZ-EF42VG	MUY-TP35VF	MUZ-SF35VE
MUZ-SF25VE	MUZ-SF25VEH	<b>MUZ-SF42VEH</b>
MUZ-SF35VEH	MUZ-SF42VE	
MUZ-HJ50VA		
MUFZ-KJ25VE	MUFZ-KJ35VE	
<b>MUFZ-KJ25VEHZ</b>	MUFZ-KJ35VEHZ	<b>MUZ-BT50VG</b>

### **OUTDOOR UNIT**



 MUZ-FH50VE
 MUZ-FH50VEHZ
 MUZ-AP71VG

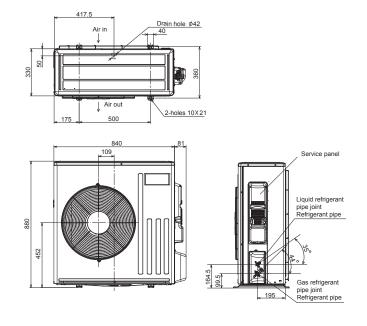
 MUZ-SF50VE
 MUZ-SF50VEH

 MUZ-GF60VE
 MUZ-GF71VE

 MUZ-HJ71VA
 MUZ-HJ71VA

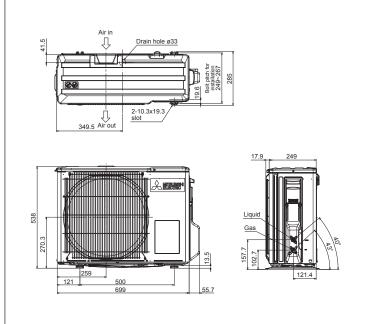
 MUFZ-KJ50VE
 MUFZ-KJ50VEHZ

**OUTDOOR UNIT** 



### MUZ-AY15VG MUZ-BT20VG

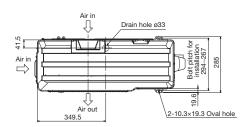
**OUTDOOR UNIT** 

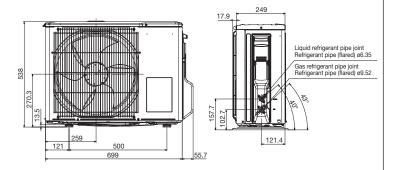


Unit: mm

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

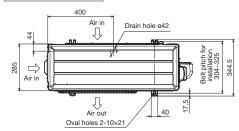
OUTDOOR UNIT

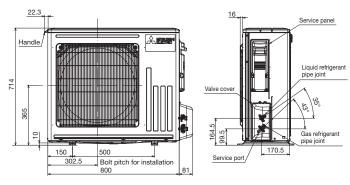




MUZ-RZ25VU(HZ) MUZ-RZ35VU(HZ)
MUZ-RW25VGHZ MUZ-RW35VGHZ
MUZ-LN50VG
MUZ-FT35/50VGHZ
MUZ-AY50VG MUZ-AY50VGH MUZ-AP60VG
MUZ-EF50VG
MUZ-HR60VF MUZ-HR71VF

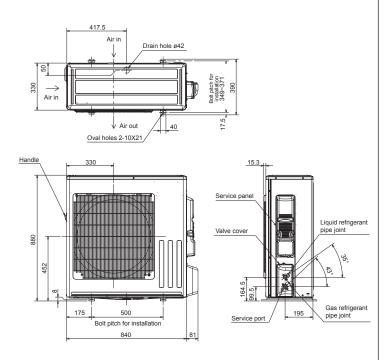
# **OUTDOOR UNIT**





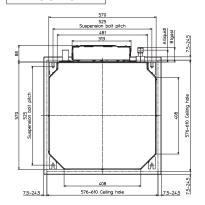
MUZ-RZ50VU(HZ) MUZ-RW50VGHZ MUZ-LN60VG2 MUZ-LN50VGHZ2

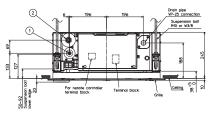
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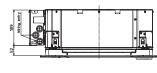


# SLZ-M15FA2 SLZ-M25FA2 SLZ-M35FA2 SLZ-M50FA2 SLZ-M60FA2

# **INDOOR UNIT**



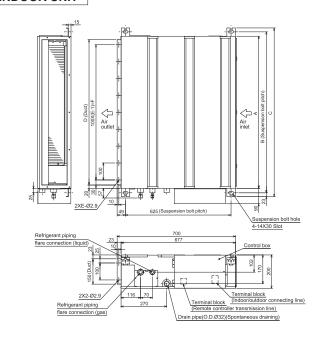




Models	Refrigerent pipe (liquid)	<li>② Refrigerent pipe (gas)</li>	Α	В
SLZ-M15FA2 SLZ-M25FA2 SLZ-M35FA2			63mm	72mm
SLZ-M50FA2		\$\psi\$12.7mm flared connection 1/2F	63mm	78mm
SLZ-M60FA2			63mm	78mm

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

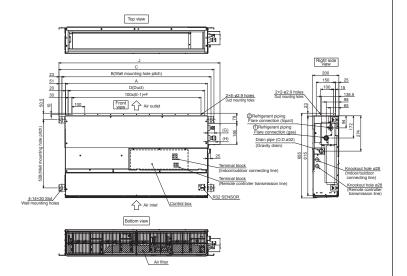
# INDOOR UNIT



Model	Α	В	С	D	Е	F	G	Н	J	K	L	Gas pipe	Liquid pipe
SEZ-M25DA(L)2	700	752	798	660	7	600	800	660	5	500	16	00 E0	Ø6.35
SEZ-M35DA(L)2	900	952	998	860	9	800	1000	860	-	700	20	Ø9.52	
SEZ-M50DA(L)2	900	952	998	800	9	800	1000	860	l ′	700	20	Ø12.7	
SEZ-M60DA(L)2	1100	1152	1198	1060	11	1000	1200	1060	9	900	24	Ø15 88	
SEZ-M71DA(L)2	1100	1152	1198	1060	- 11	1000	1200	1060	9	900	24	15.88	Ø9.52

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

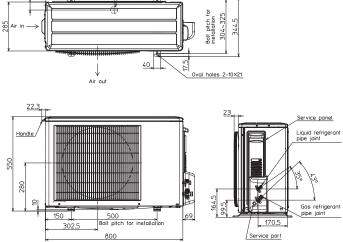
# **INDOOR UNIT**



MODEL	Α	В	С	D	Е	F	G	Н	J	①Gas pipe	②Liquid pipe
SFZ-M25VA	700	756	802	660	7	600	50	55	848	ø9.52	ø6.35
SFZ-M35VA	900	956	1002	860	9	800	50	55	1048	ø9.52	ø6.35
SFZ-M50VA	900	956	1002	860	9	800	50	61	1048	ø12.7	ø6.35
SFZ-M60VA	1100	1156	1202	1060	11	1000	50	66	1248	ø15.88	ø6.35
SFZ-M71VA	1100	1156	1202	1060	11	1000	55	66	1248	ø15.88	ø9.52

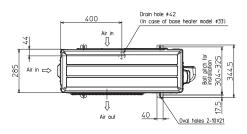
# SUZ-M25VA SUZ-M35VA

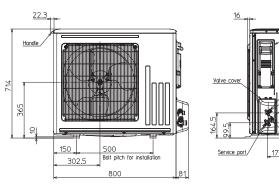
# **OUTDOOR UNIT**



# SUZ-M50VA

# **OUTDOOR UNIT**



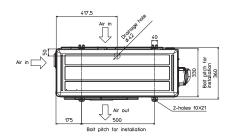


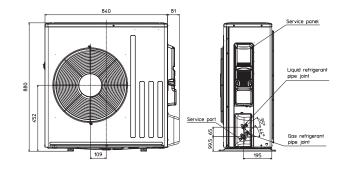
# SUZ-M60VA SUZ-M71VA

# **OUTDOOR UNIT**

Service panel

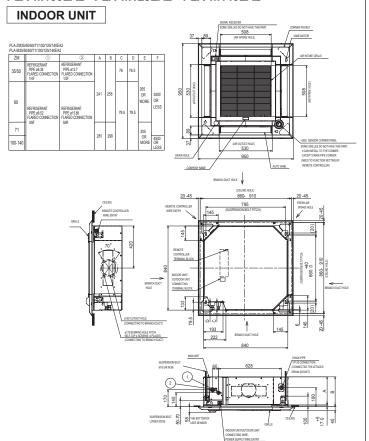
Liquid refrigerant pipe joint



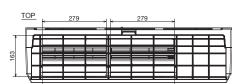


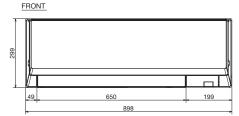
P SERIES Unit: mm

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



# PKA-M35LA(L)2 PKA-M50LA(L)2 INDOOR UNIT

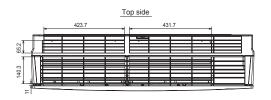


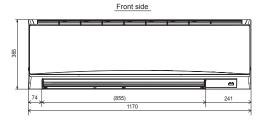


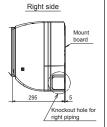


# PKA-M60KA(L)2 PKA-M71KA(L)2 PKA-M100KA(L)2

INDOOR UNIT

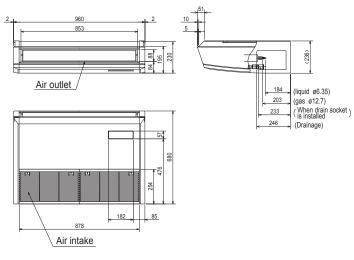






# PCA-M35KA2 PCA-M50KA2

**INDOOR UNIT** 



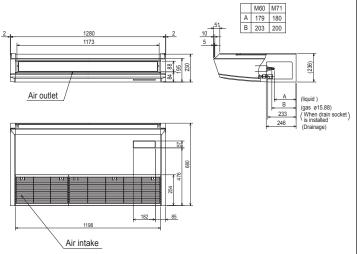
### NOTES.

- 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



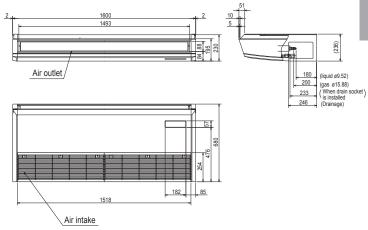
# NOTES.

- 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

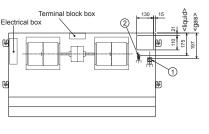


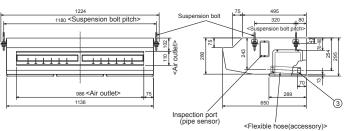
# NOTES.

- 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**

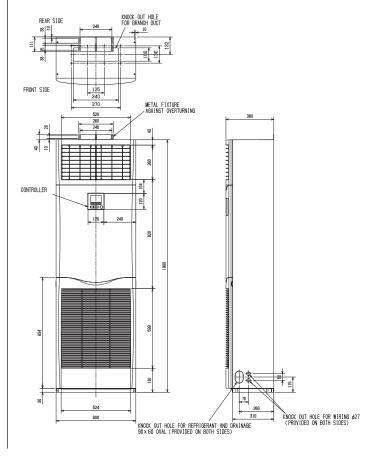




- ①Refrigerant pipe connection(gas pipe side/flared connection)
  ②Refrigerant pipe connection(liquid pipe side/flared connection)
  ③Flexible hose(accessory) —Drainage pipe connection

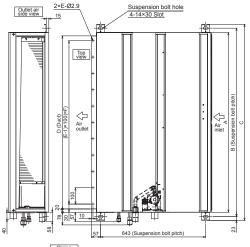
# PSA-M71KA PSA-M100KA PSA-M125KA PSA-M140KA

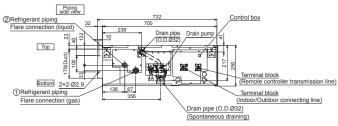
# INDOOR UNIT



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

# INDOOR UNIT

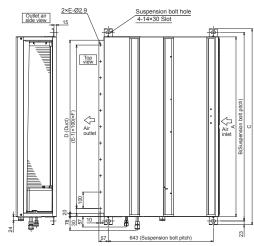


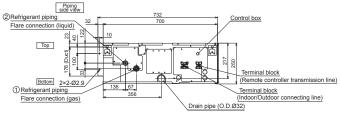


Model	Α	В	С	D	Е	F	G	① Gas pipe	② Liquid pipe
PEAD-M35, 50JA2	900	954	1000	860	9	800	858	Ø12.7	Ø6.35
PEAD-M60, 71JA2	1100	1154	1200	1060	11	1000	1058		
PEAD-M100, 125JA2	1400	1454	1500	1360	14	1300	1358	Ø15.88	Ø9.52
PEAD-M140JA2	1600	1654	1700	1560	16	1500	1558		

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

# INDOOR UNIT

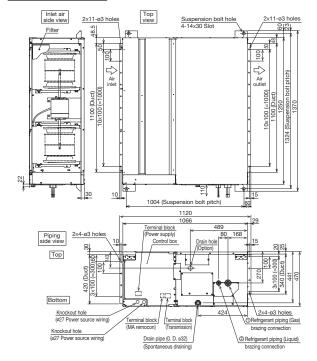




Model	Α	В	С	D	Е	F	G	① Gas pipe	②Liquid pipe
PEAD-M35, 50JAL2	900	954	1000	860	9	800	858	Ø12.7	Ø6.35
PEAD-M60, 71JAL2	1100	1154	1200	1060	11	1000	1058		
PEAD-M100, 125JAL2	1400	1454	1500	1360	14	1300	1358	Ø15.88	Ø9.52
PEAD-M140JAL2	1600	1654	1700	1560	16	1500	1558		

# PEA-M200LA2 PEA-M250LA2

# **INDOOR UNIT**

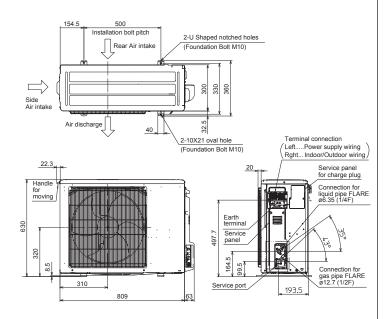


Model	① Gas pipe	②Liquid pipe	Outdoor unit
	ø22.2	ø9.52	PUZ-M200YDA
PEA-M200LA2	Ø25.4 **Reducer Accessory	ø9.52	PUZ-M200YKA2 PUZ-ZM200YKA2 PUHZ-P200YKA3 PUHZ-ZRP200YKA3
	ø22.2	ø9.52	PUZ-M250YDA
PEA-M250LA2	ø25.4 **Reducer Accessory	ø12.7 ※Reducer Accessory	PUZ-M250YKA2 PUZ-ZM250YKA2 PUHZ-P250YKA3 PUHZ-ZRP250YKA3

### Unit: mm

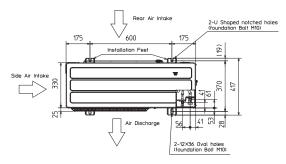
# PUZ-ZM35VKA2 PUZ-ZM50VKA2

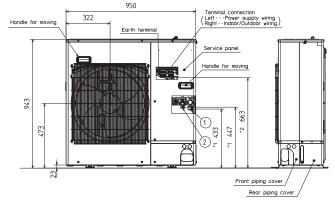
# **OUTDOOR UNIT**



# PUZ-ZM60VHA2 PUZ-ZM71VHA2

# **OUTDOOR UNIT**

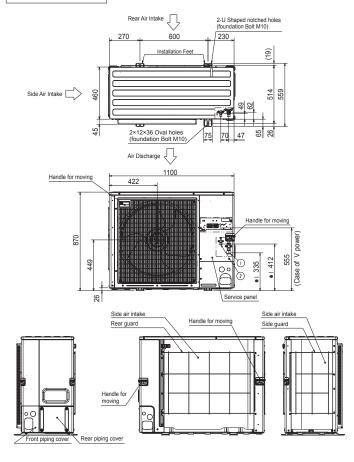




- $\textcircled{1}\cdots \textbf{Refrigerant GAS pipe connection (FLARE)} \quad \textbf{015.88 (5/8F)}$
- ② · · · Refrigerant LIQUID pipe connection (FLARE) 
  Ø9.52 (3/8F)
- \*1 ··· Indication of STOP VALVE connection location.
  \*2 ··· Indication of Terminal connection location.

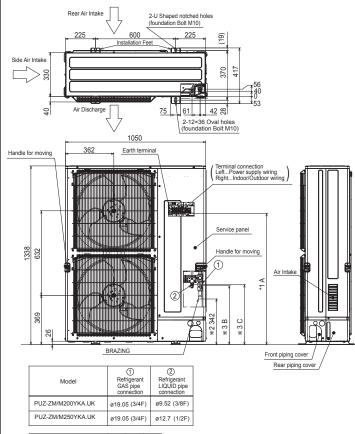
# PUZ-ZM100VDA PUZ-ZM125VDA PUZ-ZM140VDA PUZ-ZM100YDA PUZ-ZM125YDA PUZ-ZM140YDA

# **OUTDOOR UNIT**



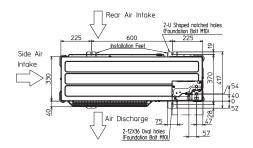
# PUZ-ZM200YKA2 PUHZ-ZM250YKA2

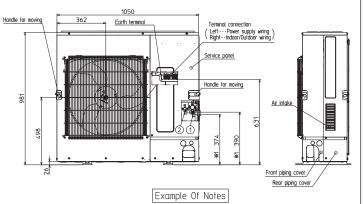
# **OUTDOOR UNIT**



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

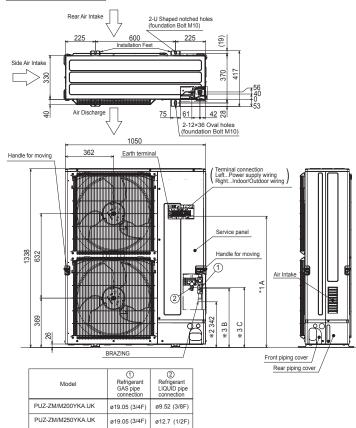
# **OUTDOOR UNIT**





- 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.**

# PUZ-M200YKA2 PUZ-M250YKA2 **OUTDOOR UNIT**

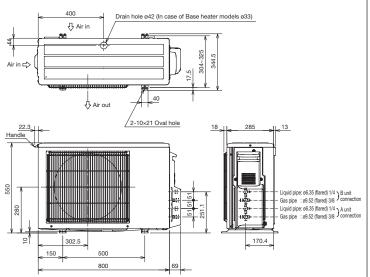


MXZ SERIES Unit: mm

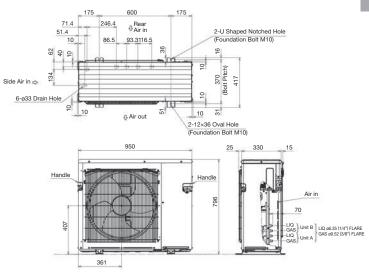
# MXZ-2HA40VF2 MXZ-2HA50VF2

MXZ-2F33VF4 MXZ-2F42VF4 MXZ-2F53VF4 MXZ-2F53VFH4

# **OUTDOOR UNIT**

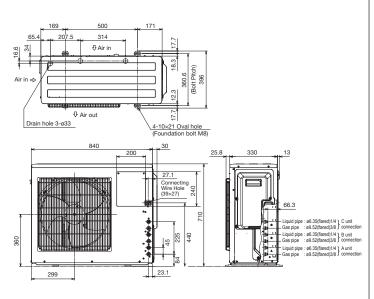


# MXZ-2F53VFHZ2 OUTDOOR UNIT



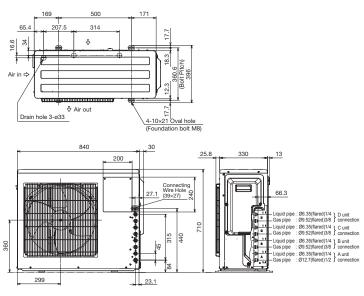
# MXZ-3DM50VA MXZ-3HA50VF2 MXZ-3F54VF4 MXZ-3F68VF4

# **OUTDOOR UNIT**



# MXZ-4F72VF4 MXZ-4F80VF4

# **OUTDOOR UNIT**

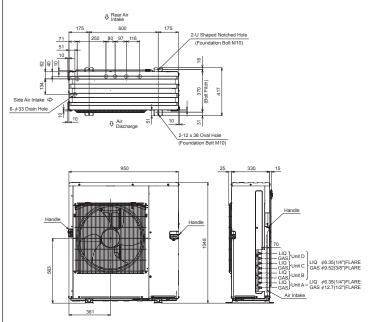


# Unit: mm

# MXZ-4E83VA MXZ-5E102VA MXZ-4F83VF2 MXZ-5F102VF2 OUTDOOR UNIT

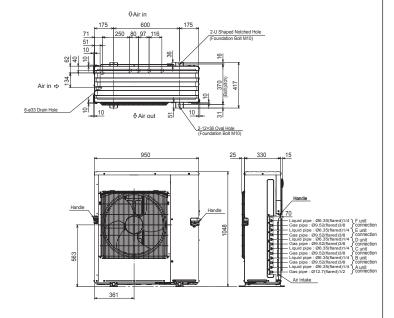
# 77.6 600 775 600 775 600 775 600 775 600 775 2-U Shaped Notched Hole (Foundation Bolt Mit) 950 2-UShaped Notched Hole (Foundation Bolt Mit) 950 Air in 10 950 10 95

# MXZ-4E83VAHZ MXZ-4F83VFHZ2 OUTDOOR UNIT



# MXZ-6D122VA2 MXZ-6F120VF2

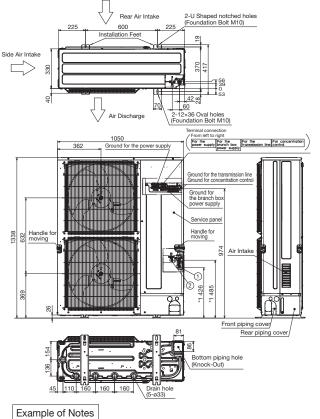
# OUTDOOR UNIT



### - Unit: mm

# PUMY-P112/125/140VKM6(-BS)

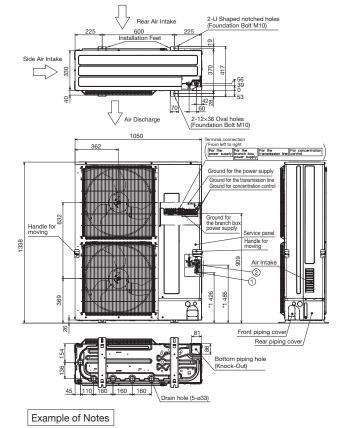
# **OUTDOOR UNIT**



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.

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

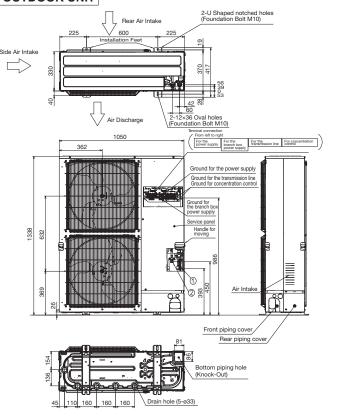
# **OUTDOOR UNIT**



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

# PUMY-P200YKM3(-BS)

# **OUTDOOR UNIT**

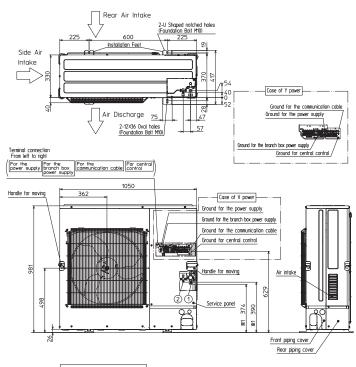


# Example of Notes

...Refrigerant GAS pipe connection (FLARE) ø19.05 (3/4F)
...Refrigerant LIQUID pipe connection (FLARE) ø9.52 (3/8F)
...Indication of STOP VALVE connection location.

# PUMY-SP112/125/140VKM2(-BS) PUMY-SP112/125/140YKM2(-BS)

# **OUTDOOR UNIT**



### Example of Notes

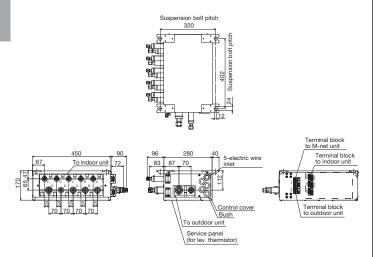
- ...Refrigerant GAS pipe connection (FLARE) #15.00 1.276 ,
   ...Refrigerant LIDUID pipe connection (FLARE) #9.52 (3/8F)
   \*\*4...Indication of STOP VALVE connection location.

# Unit: mm

# PAC-MK54BC

Suspension bolt: W3/W8 (M10)

# Branch box



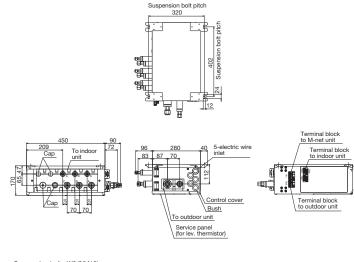
Suspension bolt : W3/8(M10) Refrigerant pipe flared connection

	Α	В	С	D	Е	To outdoor unit
Liquid pipe	ø6.35	ø6.35	ø6.35	ø6.35	ø6.35	ø9.52
Gas pipe	a9 52	a9 52	a9 52	a9 52	ø12 7	ø15.88

# PAC-MK34BC

Suspension bolt: W3/W8 (M10)

# Branch box



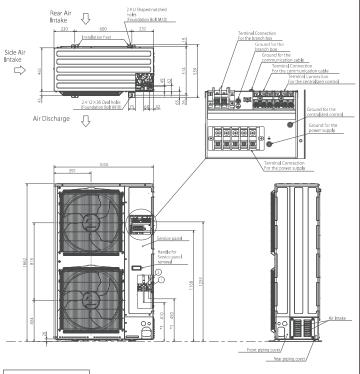
### Suspension bolt: W3/8(M10)

Refrigerant pipe flared connection

	Α	В	С		To outdoor unit
Liquid pipe	ø6.35	ø6.35	ø6.35		ø9.52
Gas pipe	ø9.52	ø9.52	ø9.52		ø15.88

# PUMY-P250YBM2(-BS) PUMY-P300YBM2(-BS)

# **OUTDOOR UNIT**



# Example of Notes

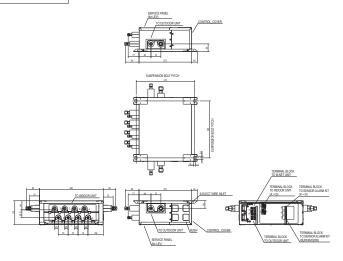
· · · Refrigerant GAS pipe connection #22.2(7/8F)
 · · · Refrigerant LIQUID pipe connection #9.52(3/8F)
\*1 · · · Indication of STOP VALVE and BALL VALVE connection location.

# Unit: mm

# PAC-MMK40BCB

Suspension bolt: W3/W8 (M10)

# Branch box



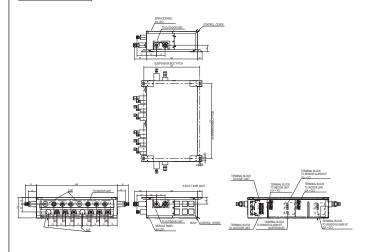
SUSPENSION BOLT: W3/8(M10) REFRIGERANT PIPE FLARED CONNECTION

	A	В	С		TO OUTDOOR UNIT
LIQUID PIPE	e6.35	ø6.35	ø8.35	¢6.35	ø9.52
GAS PIPE	ø9.52	ø9.52	ø9.52	ø9.52	ø15.88

# PAC-MMK60BCB

Suspension bolt: W3/W8 (M10)

# Branch box

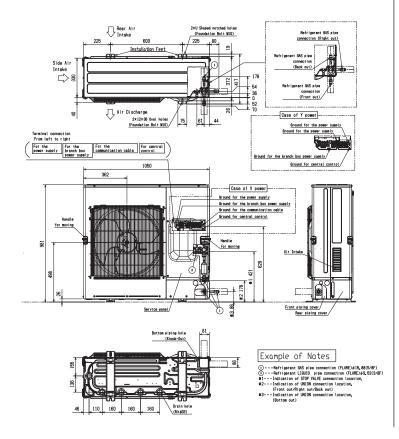


USPENSION BOLT: W3/8/M10)

	1A	18	1C	2A	28	2C	TO OUTDOOR UNIT
	ø6.35						
GAS PIPE	ø9.52	ø9.52	ø12.7	ø9.52	ø9.52	a15.88	ø15.88

# PUMY-SM112V(Y)KM(-BS) PUMY-SM125V(Y)KM(-BS) PUMY-SM140V(Y)KM(-BS)

# **OUTDOOR UNIT**



# Piping Installation

# M SERIES

Single type

Series	Class	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends
Series	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number
MSZ-RZ	25 / 35	20	12	10
	50	30	15	10
ISZ-RW	25 / 35	20	12	10
	50	30	15	10
SZ-L	25 / 35	20	12	10
	50	20	12	10
	60	30	15	10
SZ-FT	25	20	12	10
	35 / 50	30	15	10
SZ-A	15 / 20 / 25 / 35 / 42 / 50	20	12	10
	60 / 71	30	15	10
SZ-EF	25 / 35 / 42	20	12	10
	50	30	15	10
SZ-BT	20 / 25 / 35 / 50	20	12	10
SZ-HR	25 / 35 / 42 / 50	20	12	10
	60 / 71	30	15	10
SY-DW	25 / 35 / 50	20	12	10
SY-TP	35 / 50	20	12	10
SZ-F	25 / 35	20	12	10
FZ	50	30	15	10
SZ-S	25 / 35 / 42	20	12	10
	50 / 60	30	15	10
SZ-G	60 / 71	30	15	10
SZ-W SZ-D	25 / 35	20	12	10
SZ-HJ	25 / 35 / 50	20	12	10
	60 / 71	30	15	10

# S SERIES & P SERIES

Single type

Series	Class	Maximum Piping Length (m)	Maximum Height Difference (m)	Maximum Number of Bends	
Series	<outdoor unit=""></outdoor>	Total length (A)	Outdoor unit - Indoor unit (H)	Total number	
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	45	
	125 / 140	65	30	15	

Twin type

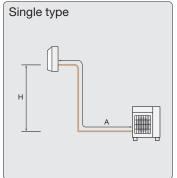
i wiii type	will type						
		Maximum Piping Length (m)		Maximum Height Difference (m)		Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C	Pipe length difference from distribution pipe  B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
Power Inverter (PUZ-ZM)	71	55	8	20	30	1	15
	100 / 125 / 140	100	8	20	30	1	15
	200 / 250						
Standard Inverter (PUZ-M)	100	55					
	125 / 140	65	8	20	30	1	15
	200 / 250		1				

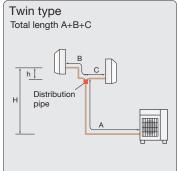
Triple type

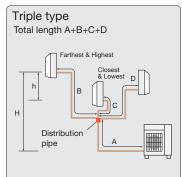
1 31							
		Maximum Piping Length (m)		Maximum Height Difference (m)		Maximum Number of Bends	
Series	Class <outdoor unit=""></outdoor>	Total length A+B+C+D	Pipe length difference from distribution pipe  B-C	Indoor unit - Distribution pipe B	Outdoor unit - Indoor unit H	Indoor unit - Indoor unit h	Total number
Power Inverter (PUZ-ZM)	140	100	8	20	30	1	15
	200 / 250						
Standard Inverter (PUZ-M)	140	65	8	20	30	1	15
	200 / 250						

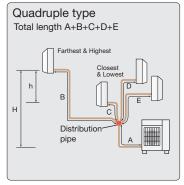
Quadruple type

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









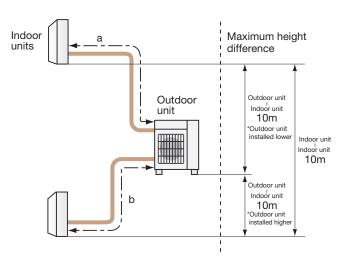
# **MXZ** SERIES

# MXZ-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

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



# MXZ-2F42VF4

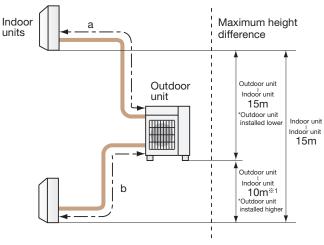
	Maximum Piping Length	
	Outdoor unit - Indoor unit (a,b)	20m
ĺ	Total length (a+b)	30m

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)		
Total length (a+b)	30m	

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



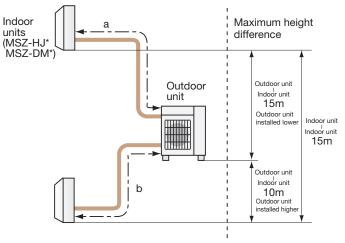
%1 in case of MXZ-2F53VFHZ2: 15m

# **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	

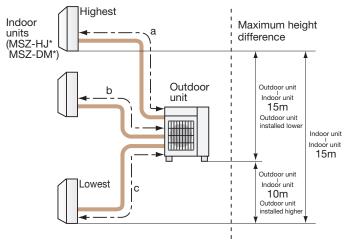


\*Only MSZ-HJ and DM model is connectable.

# 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

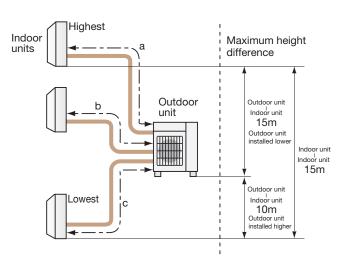


\*Only MSZ-HJ and DM model is connectable.

# 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

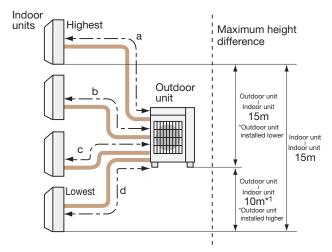
Maximum Piping Length	
Outdoor unit - Indoor unit (a,b,c,d)	25m
Total length (a+b+c+d)	60m

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

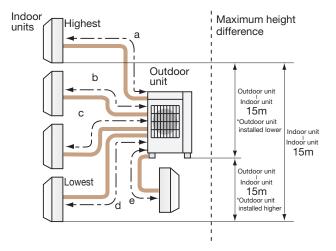


<sup>\*1</sup> in case of MXZ-4F83VF2 and MXZ-4F83VFHZ2: 15m

### MXZ-5F102VF2

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

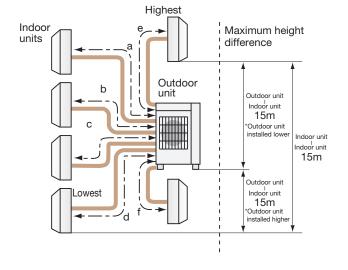
Maximum Number of Bends	
Outdoor unit - Indoor unit (a,b,c,d,e)	25
Total number (a+b+c+d+e)	80



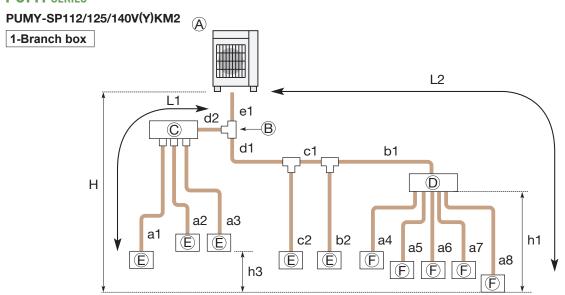
# MXZ-6F120VF2

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

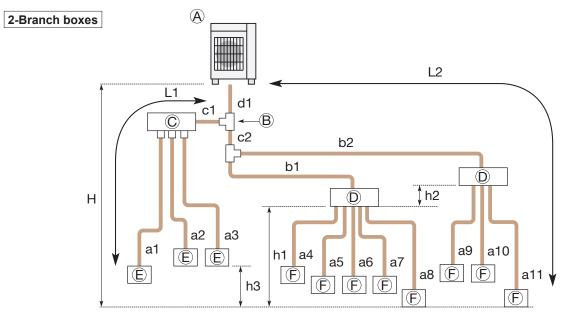


# **PUMY** SERIES



- A 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
- e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 120 m Permissible length Total piping length (One-way) Farthest piping length (L1) e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 70 m Farthest piping length. Via Branch box (L2) e1 + d1 + c1 + b1 + a8 ≦ 80 m Piping length between outdoor unit and branch box e1 + d1 + c1 + b1 ≤ 55 m  $d1 + c1 + b1 \text{ or } d1 + c1 + b2 \le 50 \text{ m}$ Farthest piping length from the first joint 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 H ≦ 50 m (In case of outdoor unit is set higher than indoor unit) Permissible height In indoor/outdoor section (H)\*1 difference (One-way) H ≦ 30 m (In case of outdoor unit is set lower than indoor unit) In branch box/indoor unit section (h1) h1 ≦ 15 m In each indoor unit (h3) h3≦12 m Number of bends |e1 + d2 + a1|, |e1 + d2 + a2|, |e1 + d2 + a3|, |e1 + d1 + c2|, |e1 + d1 + c1 + b2|,  $|e1+d1+c1+b1+a4|, |e1+d1+c1+b1+a5|, |e1+d1+c1+b1+a6|, \\ |e1+d1+c1+b1+a7|, |e1+d1+c1+b1+a8| \leq 15$

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

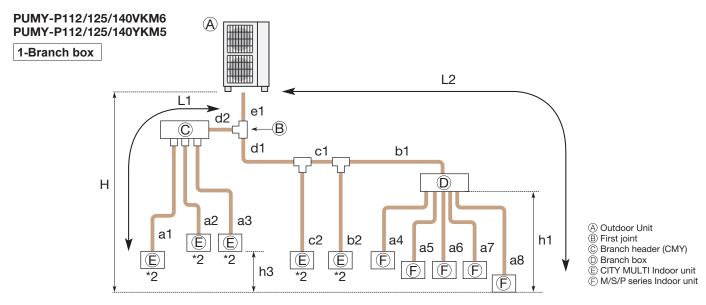


- Outdoor Unit

- B First joint (CMY, MSDD)
   Branch header (CMY)
   Branch box (PAC-MK•BC(B))
- © CITY MULTI Indoor unit
- ndoor unit

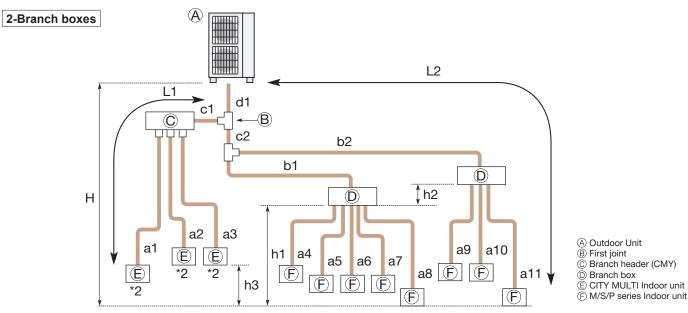
Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 120 \text{ m}$
(One-way)  Farthest piping length (L1)  Farthest piping length. Via Branch box (L2)  Piping length between outdoor unit and branch boxes  Farthest piping length from the first joint  Farthest piping length after branch box	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
	a11 ≦ 25 m	
	Farthest branch box from outdoor unit	d1 + c2 + b2 ≦ 55 m
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 95 m
Permissible height	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)
difference		H ≦ 30 m (In case of outdoor unit is set lower than indoor unit)
(One-way)	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m
	In each branch unit (h2)	h2 ≦ 15 m
	In each indoor unit (h3)	h3 ≦ 12 m
Number of bends		

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



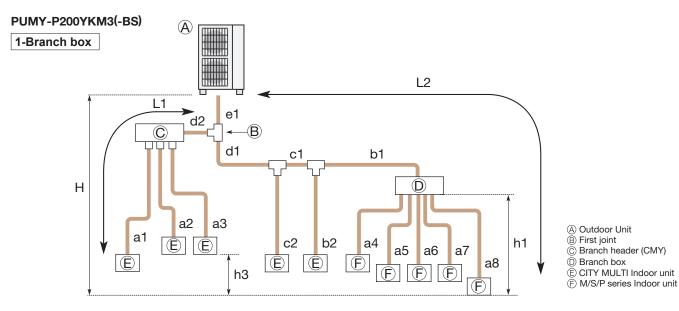
Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 300 m		
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 85 m		
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8 ≦ 80 m		
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 55 m		
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 30 m		
	Farthest piping length after branch box	a8 ≦ 25 m		
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m		
Permissible height	In indoor/outdoor section (H)*1	H ≤ 50 m (In case of outdoor unit is set higher than indoor unit)		
difference (One-way)	in indoor/outdoor section (H) 1	H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)		
	In branch box/indoor unit section (h1)	h1 ≦ 15 m		
	In each indoor unit (h3)	h3 ≦ 12 m		
Number of bends		$  e1 + d2 + a1 ,  e1 + d2 + a2 ,  e1 + d2 + a3 ,  e1 + d1 + c2 ,  e1 + d1 + c1 + b2 , \\  e1 + d1 + c1 + b1 + a4 ,  e1 + d1 + c1 + b1 + a5 ,  e1 + d1 + c1 + b1 + a6 , \\  e1 + d1 + c1 + b1 + a7 ,  e1 + d1 + c1 + b1 + a8  \le 15 $		

- \*1: Branch box should be placed within the level between the outdoor unit and indoor units.
  \*2: PKFY-P•VBM, PKFY-P10-32VLM, PFFY-P•VKM, PFFY-P•VCM, and PFFY-P•VL\* type indoor units cannot be used in a mixed system.



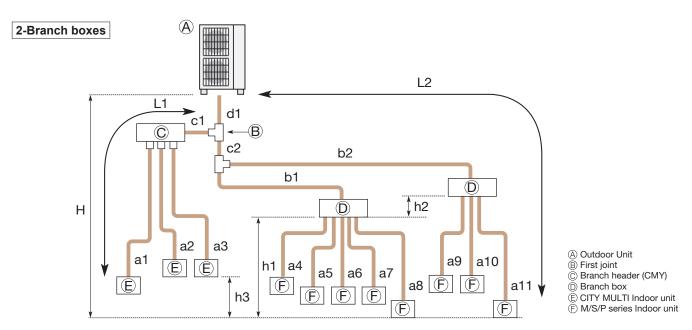
Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 240 \text{ m}$		
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 85 m		
	Farthest piping length. Via Branch box (L2)	$d1 + c2 + b2 + a11 \le 80 \text{ m}$		
	Piping length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

- \*1: Branch box should be placed within the level between the outdoor unit and indoor units.
  \*2: PKFY-P•VBM, PKFY-P10-32VLM, PFFY-P•VKM, PFFY-P•VCM, and PFFY-P·VL\* type indoor units cannot be used in a mixed system.



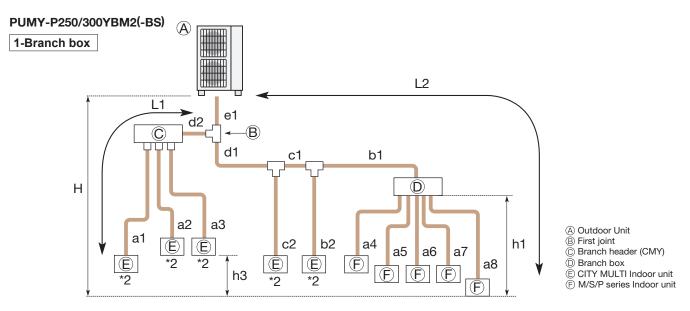
Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 150 m		
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2 ≦ 80 m		
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8 ≦ 80 m		
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 55 m		
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 30 m		
	Farthest piping length after branch box	a8 ≦ 25 m		
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 95 m		
Permissible height	In its decorated and a skin or // DVel	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)		
difference (One-way)	In indoor/outdoor section (H)*1	H ≤ 40 m (In case of outdoor unit is set lower than indoor unit)		
	In branch box/indoor unit section (h1)	h1 ≦ 15 m		
	In each indoor unit (h3)	h3 ≦ 12 m		
Number of bends		$  e1+d2+a1 ,  e1+d2+a2 ,  e1+d2+a3 ,  e1+d1+c2 ,  e1+d1+c1+b2 , \\  e1+d1+c1+b1+a4 ,  e1+d1+c1+b1+a5 ,  e1+d1+c1+b1+a6 , \\  e1+d1+c1+b1+a7 ,  e1+d1+c1+b1+a8  \leq 15 $		

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



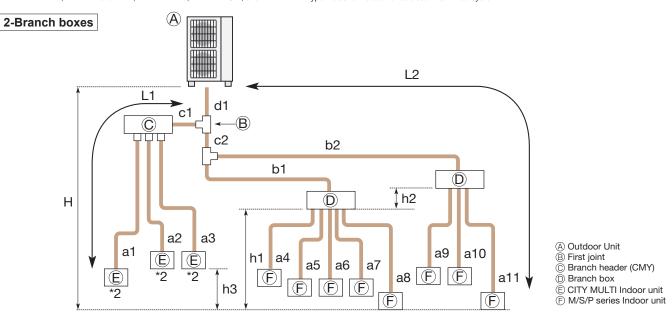
Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 150 \text{ m}$		
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 80 m		
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11≦ 80 m		
	Piping length between outdoor unit and branch boxes	$d1 + c2 + b1 + b2 \le 55 \text{ m}$		
	Farthest piping length from the first joint	c2 + b2 or c1 + a1≦ 30 m		
	Farthest piping length after branch box	a11 ≦ 25 m		
	Farthest branch box from outdoor unit	d1 + c2 + b2 ≦ 55 m		
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 95 m		
Permissible height	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)		
difference	III IIIdoor/outdoor section (H) 1	H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)		
(One-way)	In branch box/indoor unit section (h1)	h1 + h2 ≦ 15 m		
	In each branch unit (h2)	h2 ≦ 15 m		
	In each indoor unit (h3)	h3 ≦ 12 m		
Number of bends				

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



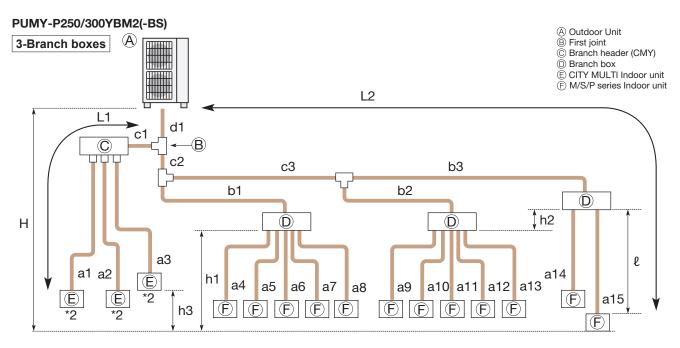
Permissible length	Total piping length	e1 + d1 + d2 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8≦ 310 m		
(One-way)	Farthest piping length (L1)	e1 + d2 + a1 or e1 + d1 + c1 + b2 ≤ 85 m		
	Farthest piping length. Via Branch box (L2)	e1 + d1 + c1 + b1 + a8 ≦ 80 m		
	Piping length between outdoor unit and branch box	e1 + d1 + c1 + b1≦ 80 m		
	Farthest piping length from the first joint	d1 + c1 + b1 or d1 + c1 + b2≦ 30 m		
	Farthest piping length after branch box	a8 ≦ 25 m		
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 ≦ 145 m		
Permissible height	In indeed (autobourgestion (LD*1	H ≤ 50 m (In case of outdoor unit is set higher than indoor unit)		
difference (One-way)	In indoor/outdoor section (H)*1	H ≤ 40 m (In case of outdoor unit is set lower than indoor unit)		
	In branch box/indoor unit section (h1)	h1 ≦ 15 m		
	In each indoor unit (h3)	h3 ≦ 12 m		
Number of bends		$  e1+d2+a1 ,  e1+d2+a2 ,  e1+d2+a3 ,  e1+d1+c2 ,  e1+d1+c1+b2 , \\  e1+d1+c1+b1+a4 ,  e1+d1+c1+b1+a5 ,  e1+d1+c1+b1+a6 , \\  e1+d1+c1+b1+a7 ,  e1+d1+c1+b1+a8  \le 23 $		

- \*1: Branch box should be placed within the level between the outdoor unit and indoor units.
  \*2: PKFY-P•VBM, PKFY-P10-32VLM, PFFY-P•VKM, PFFY-P•VCM, and PFFY-P•VL\* type indoor units cannot be used in a mixed system.



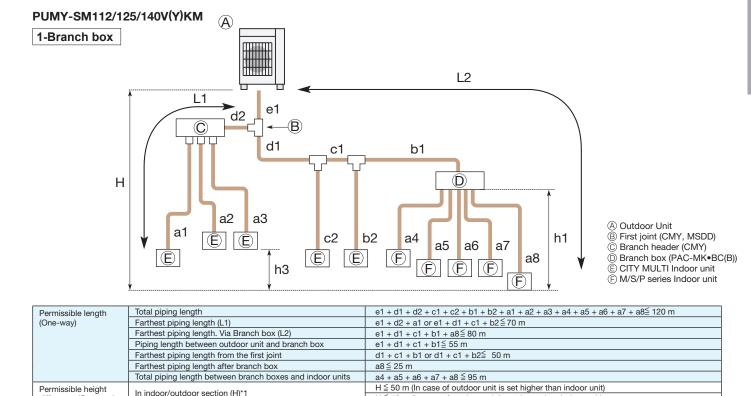
Permissible length	Total piping length	$d1 + c1 + c2 + b1 + b2 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 \le 310 \text{ m}$		
(One-way)	Farthest piping length (L1)	d1 + c1 + a1 ≦ 85 m		
	Farthest piping length. Via Branch box (L2)	d1 + c2 + b2 + a11≦ 80 m		
	Piping length between outdoor unit and branch boxes	d1 + c2 + b1 + b2≦ 95 m		
	Farthest piping length from the first joint	c2 + b2 or c1 + a1≦ 30 m		
	Farthest piping length after branch box	a11 ≦ 25 m		
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 ≦ 145 m		
Permissible height	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)		
difference	III IIIdoor/outdoor section (H) 1	H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)		
(One-way)	In branch box/indoor unit section	h1 + h2 ≦ 15 m		
	In each branch unit (h2)	h2 ≦ 15 m		
	In each indoor unit (h3)	h3 ≦ 12 m		
Number of bends		d1 + c1 + a1 ,  d1 + c1 + a2 ,  d1 + c1 + a3 ,  d1 + c2 + b1 + a4 ,  d1 + c2 + b1 + a5 ,		
		d1 + c2 + b1 + a6 ,  d1 + c2 + b1 + a7 ,  d1 + c2 + b1 + a8 ,  d1 + c2 + b2 + a9 ,		
		$ d1 + c2 + b2 + a10 $ , $ d1 + c2 + b2 + a11  \le 23$		

<sup>\*1:</sup> Branch box should be placed within the level between the outdoor unit and indoor units
\*2: PKFY-P•VBM, PKFY-P10-32VLM, PFFY-P•VKM, PFFY-P•VCM, and PFFY-P•VL\* type indoor units cannot be used in a mixed system..



Permissible length (One-way)	Total piping length	d1 + c1 + c2 + c3 + b1 + b2 + b3 + a1 + a2 + a3 + a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 + a12 + a13 + a14 + a15 $\leq$ 310 m		
	Farthest piping length (L1)	d1 + c1 + a1 ≦ 85 m		
	Farthest piping length. Via Branch box (L2)	d1 + c2 + c3 + b3 + a15≦ 80 m		
	Piping length between outdoor unit and branch boxes	d1 + c2 + c3 + b1 + b2 + b3≦ 95 m		
	Farthest piping length from the first joint	c2 + c3 + b3 or c1 + a1≦ 30 m		
	Farthest piping length after branch box (ℓ)	a15 ≦ 25 m		
	Total piping length between branch boxes and indoor units	a4 + a5 + a6 + a7 + a8 + a9 + a10 + a11 + a12 + a13 + a14 + a15 ≦ 145 m		
Permissible height	In indoor/outdoor section (H)*1	H ≦ 50 m (In case of outdoor unit is set higher than indoor unit)		
difference	in indoor/outdoor section (A) 1	H ≦ 40 m (In case of outdoor unit is set lower than indoor unit)		
(One-way)	In branch box/indoor unit section	h1 + h2 ≦ 15 m		
	In each branch unit (h2)	h2 ≦ 15 m		
	In each indoor unit (h3)	h3 ≦ 12 m		
Number of bends		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		

<sup>\*1:</sup> 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.



h1 ≦ 15 m h3 ≦ 12 m

H ≤ 40 m (In case of outdoor unit is set lower than indoor unit)

 $\begin{aligned} &|e1+d2+a1|,\,|e1+d2+a2|,\,|e1+d2+a3|,\,|e1+d1+c2|,\,|e1+d1+c1+b2|,\\ &|e1+d1+c1+b1+a4|,\,|e1+d1+c1+b1+a5|,\,|e1+d1+c1+b1+a6|,\\ &|e1+d1+c1+b1+a7|,\,|e1+d1+c1+b1+a8| \leqq 15 \end{aligned}$ 

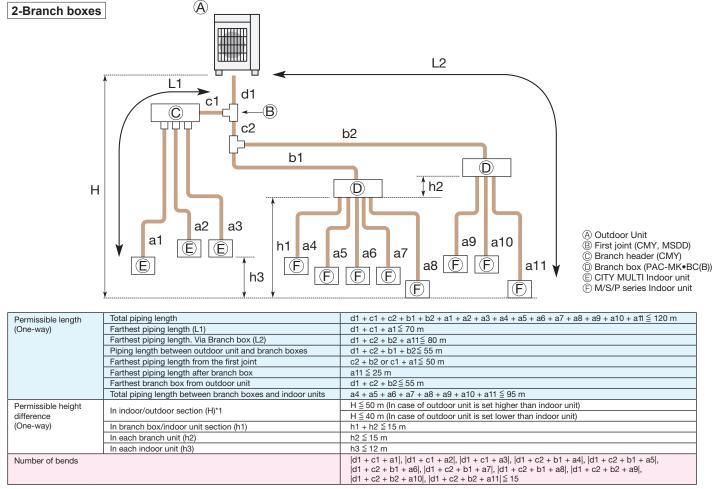
\*1: Branch box should be placed within the level between the outdoor unit and indoor units

In branch box/indoor unit section (h1)

In each indoor unit (h3)

difference (One-way)

Number of bends



<sup>\*1:</sup> 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 ref	er below (*1)			
Outdoor Unit				MXZ-3HA50VF2	MXZ-4F80VF4	MXZ-4F83VF2	MXZ-4F83VFHZ2	MXZ-2F42VF4	MXZ-3F68VF4	
Refrigerant/GWP				R32/675 <sup>(2)</sup>						
Power	Source			Outdoor power supply						
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 cons	sumption (*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 efficienc	y 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 cons	Annual electricity consumption (13) kWh/a		1324.00	2492.00	2336.00	3155.00	1172.00	2498.00	
	SCOP (*4)  Energy efficiency class (*4)		4.02	3.93	4.20	4.00	3.82	3.81		
			y class (14)	A+	A	A+	A+	A	A	
Outdoor	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)	
Unit	Weight		kg	57	59	62	86	37	58	
	Air Volume	Cooling	m³/min	31.0	40.3	57	63	28.4	35.4	
		Heating	m³/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.	Port diameter	Liquid	mm	6.35×3	6.35×4	6.35×4	6.35×4	6.35×2	6.35×3	
Piping		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 (Ma	ax.)	m	50	60	70	70	30	60	
	Each indoor unit piping	Each indoor unit piping length (Max.) m		25	25	25	25	20	25	
	Max. Height		m	15 (10) <sup>(15)</sup>	15 (10) <sup>(*5)</sup>	15	15	15 (10) <sup>(5)</sup>	15 (10) <sup>(*5)</sup>	
	Chargeless length		m	40	60	70	70	30	60	
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
(Outdoor	)	Heating	°C	-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 <sup>(2)</sup>					
Power	Source			Outdoor power supply					
Supply	Outdoor (V/Phase/Hz)			:	220-230-240V/Single/50Hz	7	230V/1 pha	ise/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 cons	umption (13)	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		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) Energy efficiency clas			4.07	4.05	3.99	4.07	4.20	
			class (*4)	A <sup>+</sup>	A <sup>+</sup>	A	A <sup>+</sup>	A <sup>+</sup>	
Outdoor	Dimensions	H*W*D	mm	710 - 840 - 330 (+66)	796 - 950 - 330	1048 - 950 - 330	710 - 840 (+30) - 330 ( +66)	796 - 950 - 330	
Unit	Weight		kg	59	62	87	59	62	
	Air Volume	Cooling	m³/min	35.4	63	63	35.4	57	
		Heating	m³/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		Α	25	25	32	25	25	
Ext.	Port diameter	Liquid	mm	6.35×4	6.35×5	6.35×6	6.35×4	6.35×5	
Piping		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 (Ma	x.)	m	60	80	80	60	70	
	Each indoor unit piping	Each indoor unit piping length (Max.) m		25	25	25	30	30	
	Max. Height		m	15 (10) <sup>(18)</sup>	15	15	20	20	
	Chargeless length		m	60	80	80	60	70	
	ed Operating Range	Cooling	°C	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	-10 ~ +46	
(Outdoor		Heating	°C	-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-HR25VFx2

MXZ-4F80VF4 → MSZ-MY42VG/MSZ-LN35VG2

MXZ-4F83VF2 → MSZ-AY42VG

MXZ-4F83VF2 → MSZ-AY42VG

MXZ-4F83VF42 → MSZ-AY42VG

MXZ-2F83VF4 → MSZ-AY42VG

MXZ-2F43VF4 → MSZ-AY20VGMSZ-AY42VG

MXZ-3F68VF4 → MSZ-AY20VGMSZ-AY50VG

MXZ-4F72VF4 → MSZ-LN35VG2/MSZ-LN35VG2

PXZ-4F75VG → MSZ-LN35VG2/MSZ-LN35VG2

PXZ-4F75VG → MSZ-AY20VGMSZ-AY50VG

MXZ-5F102VF2 → MSZ-AY2VGMSZ-AY50VG

MXZ-5F102VF2 → MSZ-AY2VG

MXZ-5F102VF2

# 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 ,
S	"L"= 4- or 1-way cassette , "U"= Outdoor unit
Z	"Z"= Inverter heat pump , "H"= Fixed-speed heat pump , "blank"= Cooling only of Non-inverter , "Y"= Cooling only of inverter
_	
F	Series
Н	Generation
25	Rated cooling capacity (kW base)
V	230V / Single phase / 50Hz
	"A"= R410A with new A control , "B"= R410A with conventional control ,
Е	"E"= R410A with new A control & ErP correspondance, "G"=R32 with new A control & ErP correspondance,
	"F"= R32 with new A control
	"HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model ,
HZ	"S"= Silver indoor unit , "W"= White/Natural White indoor unit , "B"= Black/Onyx Black indoor unit ,
	"V"= Pearl White indoor unit , "R"= Ruby Red indoor unit

# 2) P Series

P	P Series
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
Н	Generation
Α	"A"= A control

# 3) MXZ Series

M	M Series
X	Multi-system outdoor unit (heat pump)
Z	Inverter heat pump
_	
4	Maximum number of connectable indoor units
D/E/F/HJ/DM/HA	Generation / Type
72	Rated cooling capacity (kW base)
V	"V"= 230V / Single phase / 50Hz, "F"= R32 with new A control
A/F	"A"= R410A with new A control
HZ	"HZ"= Hyper Heating model , "H"= Anti-freeze heater equipped model

# Refrigerant Amount

# M/S/P/Multi/Zubadan/ATW

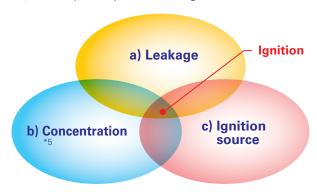
		Refrige	erant	Pre- qu	charged lantity	Max. added quantity		
	Model Name		GWP	Weight [kg]	CO <sub>2</sub> equivalent [t]	Weight [kg]	CO <sub>2</sub> equivalent [t]	
	MUZ-RZ25VU	R290	3	pending	pending	pending	pending	
	MUZ-RZ25VUHZ	R290 R290	3	pending 0.39	pending 0.01	pending 0.49	pending 0.01	
	MUZ-RZ35VU 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 MUZ-LN35VG	R32	675 675	0.8	0.54	0.20	0.135	
	MUZ-LN35VG MUZ-LN35VG2	R32 R32	675	1.00 0.85	0.68 0.57	0.26	0.18	
	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 MUZ-FT35VGHZ	R32 R32	675 675	0.85	0.58	0.25	0.17	
	MUZ-FT50VGHZ	R32	675	0.95	0.65	0.45	0.31	
	MUZ-AY15VG	R32	675	0.49	0.34	0.45	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 MUZ-AP60VG	R32	675	1.00	0.68	0.26	0.18	
	MUZ-AP60VG MUZ-AP71VG	R32 R32	675 675	1.05 1.50	1.02	0.30	0.20	
	MUZ-AY25VGH	R32	675	0.55	0.37	0.36	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	
M-Series	MUZ-EF42VG	R32	675	0.74	0.50	0.26	0.18	
	MUZ-EF50VG MUZ-BT20VG	R32 R32	675 675	1.05 0.45	0.71	0.46	0.32 0.18	
	MUZ-BT25VG	R32	675	0.45	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 MUZ-HR71VF	R32 R32	675 675	1.05 1.05	0.71	0.46	0.32	
	MUZ-DW25VF	R32	675	0.50	0.71	0.46	0.32	
	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 MUFZ-KW60VGHZ	R32 R32	675 675	1.3	0.88	1.76 1.76	1.19 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 MXZ-4F83VF2	R32 R32	675 675	2.4	1.62 1.62	2.4	1.62 1.62	
	MXZ-4F83VF2 MXZ-5F102VF2	R32	675	2.4	1.62	2.4	1.62	
	MXZ-6F102VF2	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	

		Refrige	erant	Pre- qu	charged Jantity	Max. added quantity		
	Model Name		GWP	Weight [kg]	CO <sub>2</sub> equivalent [t]	Weight [kg]	CO <sub>2</sub> equivalent [t]	
	SUZ-M25VA	R32	675	0.65	0.44	0.26	0.18	
	SUZ-M35VA	R32	675	0.90	0.61	0.26	0.18	
S-Series	SUZ-M50VA	R32	675	1.20	0.81	0.46	0.31	
	SUZ-M60VA	R32	675	1.25	0.84	0.46	0.31	
	SUZ-M71VA	R32	675	1.45	0.98	0.92	0.62	
	PUZ-ZM35VKA2 PUZ-ZM50VKA2	R32 R32	675 675	2.0	1.35 1.35	0.3	0.20	
	PUZ-ZIVI50VNA2 PUZ-ZIM60VHA2	R32	675	2.0	1.35	0.3	0.20	
	PUZ-ZM71VHA2	R32	675	2.8	1.89	0.8	0.54	
	PUZ-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	
P-Series	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 PUZ-M100VKA2	R32 R32	675 675	6.8 3.1	4.59 2.1	9.2 4.8	6.21 0.7	
	PUZ-M100VKA2 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-SP112VKM2(-BS)	R410A	2088	3.5	7.31	9.0	18.79	
	PUMY-SP112YKM2(-BS) PUMY-SP125VKM2(-BS)	R410A R410A	2088	3.5	7.31 7.31	9.0	18.79 18.79	
	PUMY-SP125VKM2(-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	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) PUMY-P300YBM2(-BS)	R410A R410A	2088	9.3 9.3	19.42 19.42	32.1 32.1	67.03 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	
	PUZ-WM50VHA	R32	675	2.0	1.35	-	-	
ATW	PUZ-WM60VAA	R32	675	2.2	1.49	-	-	
Packaged	PUZ-WM85V/YAA	R32	675	2.2	1.49	-	-	
	PUZ-WM112V/YAA PUZ-HWM140V/YHA	R32 R32	675 675	3.0	2.03 2.2275	_	_	
	SUZ-SWM40VA	R32	675	1.2	0.81	0.4	0.27	
	SUZ-SWM60VA	R32	675	1.2	0.81	0.4	0.27	
	SUZ-SWM80VA	R32	675	1.2	0.81	0.4	0.27	
	PUD-SWM60VAA	R32	675	1.3	0.8775	0.3	0.20	
	PUD-SWM80V/YAA	R32	675	1.3	0.8775	0.3	0.20	
	PUD-SWM100V/YAA	R32	675	1.6	1.08	0.23	0.16	
	PUD-SWM120V/YAA	R32	675	1.6	1.08	0.23	0.16	
ATW	PUD-SHWM60VAA	R32	675	1.4	0.945	0.3	0.20	
Split	PUD-SHWM80V/YAA	R32	675	1.4	0.945	0.3	0.20	
	PUD-SHWM100V/YAA	R32 R32	675 675	1.7	1.1475	0.13	0.09	
	PUD-SHWM120V/YAA PUD-SHWM140V/YAA	R32	675	1.7 1.7	1.1475 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 <sub>2</sub> F <sub>2</sub>	CH <sub>2</sub> F <sub>2</sub> /CHF <sub>2</sub> CF <sub>3</sub>	CHCIF2
Composition (blend ratio wt. %)	Single composition	R32/R125 (50/50 wt %)	Single composition
Ozone depletion potential (ODP)	0	0	0.055
Global warming potential (GWP) *1	675	2088	1810
LFL(vol.%) *2	13.3	_	_
UFL(vol.%) *3	29.3	-	_
Flammability *4	Lower flammability (2L)	No flame propagation (1)	No flame propagation (1)

<sup>\*1</sup> IPCC 4th assessment report.

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.

 $< \! \mathsf{Repair}/\! \mathsf{Relocation}/\! \mathsf{Removal} \! > \cdot \mathsf{Pump} \ \mathsf{down} \ \mathsf{or} \ \mathsf{recovering} \ \mathsf{refrigerant} \ \mathsf{should} \ \mathsf{be} \ \mathsf{done}.$ 

### 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.

<sup>\*2</sup> LFL : Lower flammable limit

<sup>\*3</sup> UFL: Upper flammable limit

<sup>\*4</sup> ISO 817:2014

<sup>\*5</sup> R32 consistency is higher than LFL\*1 and lower than UFL\*2.

# INSTALLATION RESTRICTIONS

In order to prevent the refrigerant from igniting, use the following instructions during installation.

### 1) Indoor Units

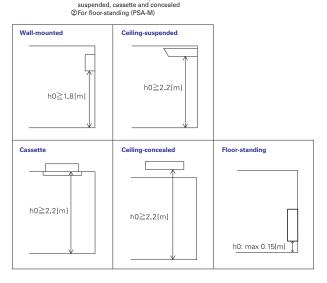
Install in a room with a floor area of Amin\* or more, corresponding to refrigerant quantity M.

(M = factory-charged refrigerant + locally added refrigerant)

Install the indoor unit so that the height from the floor to the bottom of the indoor unit is  $hO^{\ast}$ .

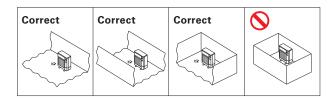
\* Refer to table and drawings below.

<m series=""></m>			<p seri<="" th=""><th>es&gt; ①</th><th></th><th></th><th>2</th><th colspan="3"><mxz series=""></mxz></th><th colspan="4"><only for="" kw="" mfz-kt=""></only></th></p>	es> ①			2	<mxz series=""></mxz>			<only for="" kw="" mfz-kt=""></only>			
M[kg]	Amin [m²]		M[kg]	Amin [m²]		M[kg]	Amin [m²]		M[kg]	Amin [m²]		M[kg]	Amin[m²]	
0.7	1.7		1.0	4		<1.84	No requirements		1.0	3		1.00		
0.8	2.0		1.5	6		1.84	6		1.5	4.5		1.50	No	
			2.0	8		2.0	6		1.5				requirements	
0.9	2.2		2.5	10		2.5	7		2.0	6		1.80		
1.0	2.5		3.0	12		3.0	9		2.5	7.5		1.84	3.63	
1.1	2.7		3.5	14		3.5	10		3.0	9		1.90	3.75	
10	0.0		4.0	16		4.0	11		0.5	40		0.00	0.05	
1.2	3.0		4.5	20		4.5	13		3.5	12		2.00	3.95	
1.3	3.2		5.0	24		5.0	14		4.0	15.5		2.10	4.15	
1.4	3.4		5.5	29		5.5	15		4.5	20		2.20	4.34	
1.5	3.7		6.0	35		6.0	17		5.0	24		2.30	4.54	
			6.5	41		6.5	18							
1.6	3.9		7.0	47		7.0	20		5.5	29		2.40	4.74	
1.7	4.2		7.5	54		7.5	21		6.0	35				
1.8	4.4		8.0	62		8.0	22		6.5	41				
			8.5	69		8.5	24							
1.9	4.6		9.0	78		9.0	25		7.0	47				
2.0	4.9		9.5	87		9.5	26		7.5	54				
	①For wall-mounted, ceiling													



# 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.



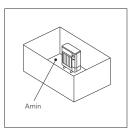
It you unavoidably install a unit in a space where all four sides are blocked or there are depressions, confirm that one of these situations (A, B or C) is satisfied.

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

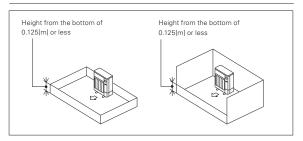
Install in a space with an installation area of Amin\* or more, corresponding to refrigerant quantity M. (M = factory-charged refrigerant + locally added refrigerant)

\* 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



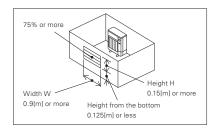
# **B** Install in a space with a depression height of $\leq 0.125$ [m].



### Create an appropriate open ventilation area.

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

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



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

• Models with R32 Refrigerant: MSZ-L Series (single connection)

# IOSSNAY SYSTEM







# **SELECTION**

LOSSNAY lineup consists of two types of ventilation: Energy Recovery Ventilation (ERV) and Heat Recovery Ventilation (HRV). Choose the model that best matches your building layout and indoor environment.

# **LOSSNAY LINEUP**

Туре	Core	Model	Airflow	150 CMH	250 CMH	350 CMH	500 CMH	650 CMH	800 CMH	1000 CMH	1600 CMH	2000 CMH	2500 CMH
LOSSNAY		/ LGH-RVX3 Series	Single decker	•	•	•	•	•	•	•			
	ERV		Double decker								•	•	
	ERV	LGH-RVXT3 Series									•	•	•
	HRV	LGH-RVS Series	1				•		•	•			
LOSSNAY with Dx-Coil Unit	ERV	GUF Series					•			•			

<sup>\*</sup>ERV = Energy recovery ventilator \*HRV = Heat recovery ventilator

# **PRODUCT LINEUP**

Commo	ercial	Reside	ential
Ceiling Conc	ealed 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)S <sub>2</sub> -E ERV VL-50SR <sub>2</sub> -E Wall mounted models for smaller air volumes. They may be installed both horizontally and vertically.
			9
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.		

<sup>\*</sup>ERV: Enegy recovery ventilator \*HRV: Heat recovery ventilator

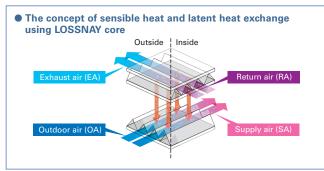
# Commercial Use LOSSNAY

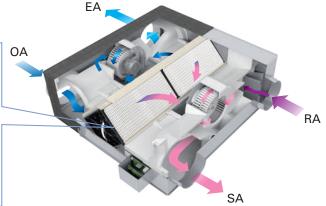


LGH SERIES

# Optimized Indoor Air Quality through Temperature and Humidity Exchange by LOSSNAY

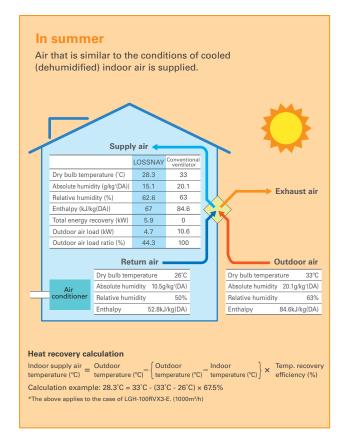
LOSSNAY is a total heat exchange ventilation system that uses paper characteristics to perform temperature (sensible heat) and humidity (latent heat) exchange.

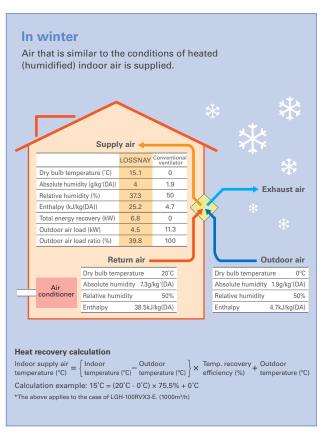




# What is Improved by Introducing LOSSNAY?

Ventilation with maximized comfort



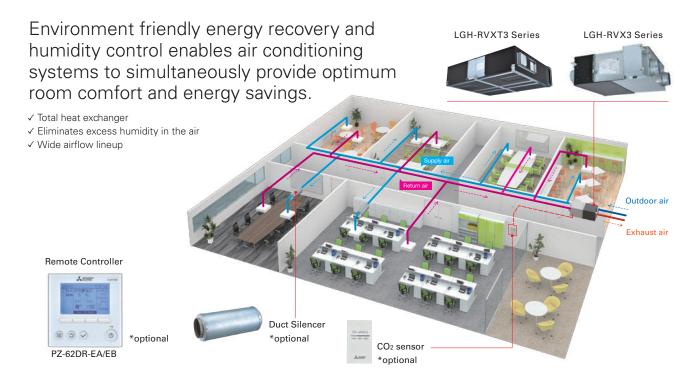


# **Installation Image**

Mitsubishi Electric offers Energy Recovery Ventilation and Heat Recovery Ventilation solutions for optimizing building air quality by using LOSSNAY.

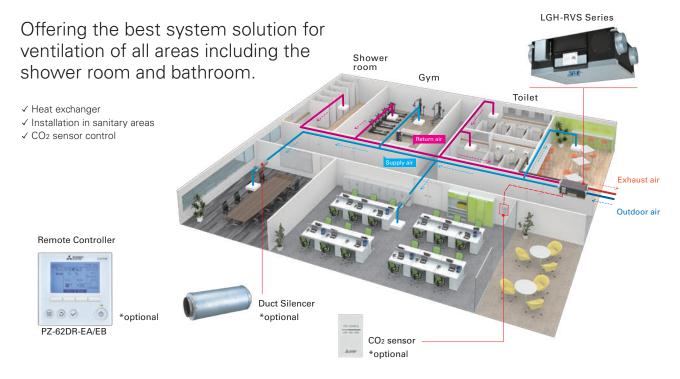
# **Energy Recovery Ventilation**

A total heat exchange ventilation system that uses paper characteristics (LOSSNAY core) to perform temperature (sensible heat) and humidity (latent heat) exchange.



# **Heat Recovery Ventilation**

A heat exchange ventilation system that uses a heat exchanger (LOSSNAY core) to perform temperature (sensible heat) exchange.

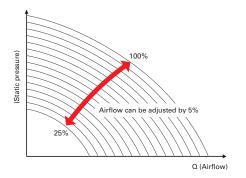


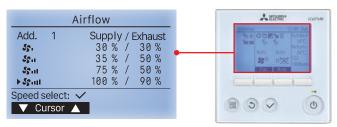
# **Features of LGH Series**

# 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<sub>2</sub> sensor

A CO<sub>2</sub> sensor connected directly to a LOSSNAY RVX3 unit optimizes the fan speed according to the detected CO<sub>2</sub> level. It improves total heat exchange efficiency and contributes to energy savings.



Wall-mounted CO<sub>2</sub> sensor (PZ-70CSW-E)

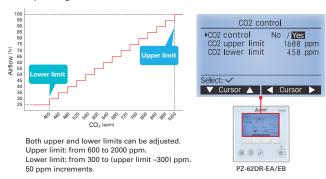
Or

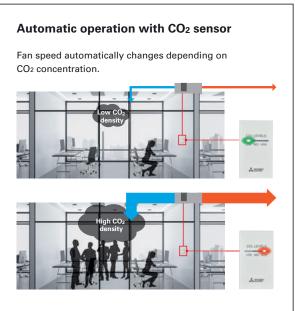
Or

Duct-mounted CO<sub>2</sub> sensor (PZ-70CSD-E)

Two types of CO2 sensors are available: wall-mounted and duct-mounted types. Power is supplied to the CO2 sensor from the LOSSNAY board.

Fan speed automatically changes from 25% to 100% (16 steps) depending on the  $CO_2$  concentration level.



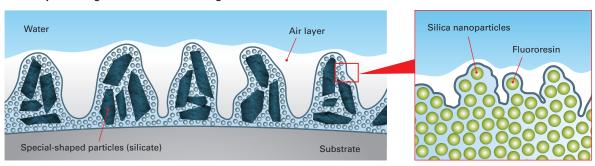


# **Dual Barrier Coating**



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

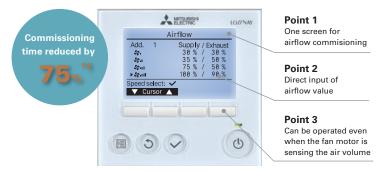


# **Installation Work**

# 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

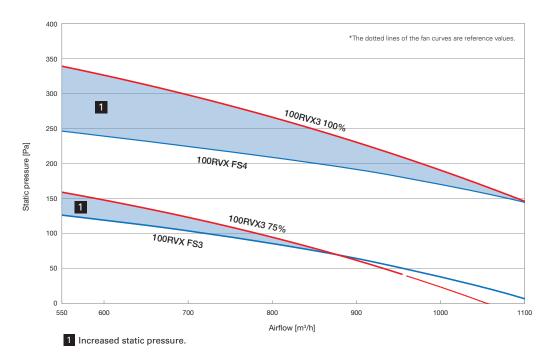
<sup>\*1:</sup> The average reduction rate when installing LGH-100RVX-E with PZ-61DR-E and LGH-100RVX3-E with PZ-62DR-EA/EB.

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

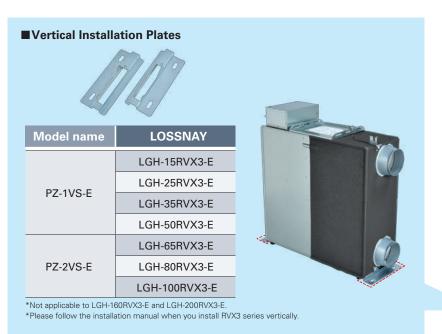
# **High Static Pressure**

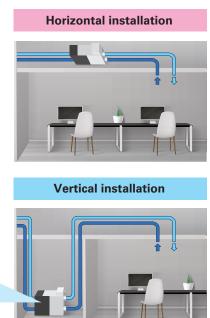
External static pressure has been improved compared to previous models. Accompanying this increase in external static pressure, the selection range of models and filters has also expanded. Furthermore, flexible duct work has become possible.



# 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.

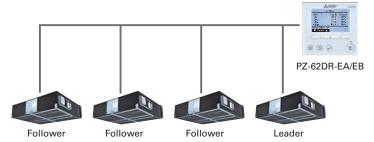




# **RVXT3** SERIES

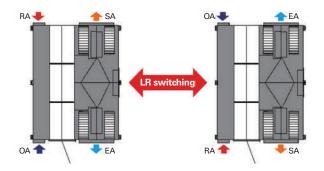
### Large Airflow as One Unit: Leader-follower Function

- 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. 10,000m<sup>3</sup>/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

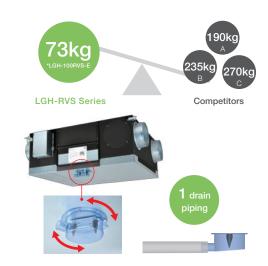
### Easy Installation

### **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.

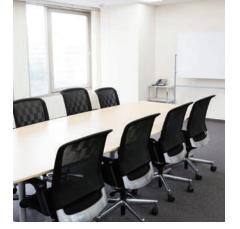
### Easy drain piping

- 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).

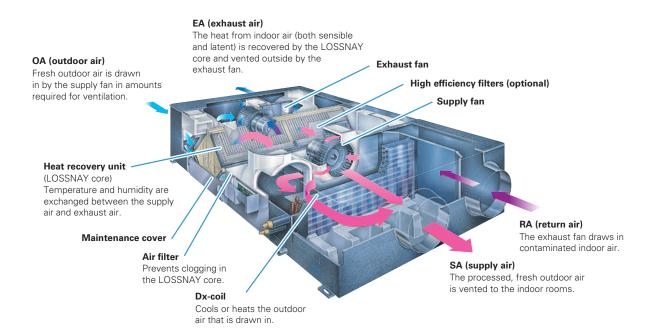
### **R410A Refrigerant Units**

Mod	del 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				•	•	•	•	•	•	•	•	•	•			
DUMAY O - vi	PUMY-SP	•	•	•													
PUMY Series	PUMY-P	•	•	•	•												

### LOSSNAY Ventilation and Air Conditioning

The OA (outdoor air) Processing Unit creates an optimum environment while providing substantial energy savings. It delivers forced air ventilation, heat recovery, heating and cooling, and air purification. This total air conditioning system keeps indoor air fresh and comfortable all year round, and keeps it free of contaminants that could cause ailments such as sick building syndrome. Inside the OA Processing Unit is the LOSSNAY core, a heat exchange unit that transfers heat efficiently, and cuts ventilation load by as much as 70%. A remarkable product found nowhere else, this special combination of functionality and performance contained within a single unit ensures users ample comfort, good health, and energy savings.

### **GUF-RD** type



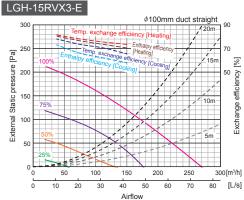
# **Specifications RVX3 SERIES**

Model			LGH-15	RVX3-E			LGH-25	RVX3-E			LGH-35	RVX3-E	
Electrical power sup	ply	220	-240V/50H	lz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default Airflow setting	ıg	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 <sup>*1</sup>	(m³/h)	150	113	75	38	250	188	125	63	350	263	175	88
Allilow	(L/s)	42	31	21	10	69	52	35	17	97	73	49	24
Specific fan power [W/(L/s)]*		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	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
efficiency (%)*1	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	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
efficiency (%)*1	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 ra	atio (%) <sup>*3</sup>			5			į	5				5	
Weight (kg)			2	0			2	2			3	0	
Maximum input pow	er (W)		7	4			1′	19			19	96	

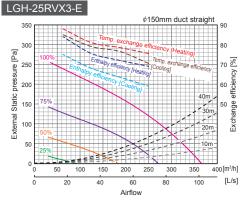
<sup>\*</sup>Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation. \*1 : Measured according to ISO 16494-1: 2022

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

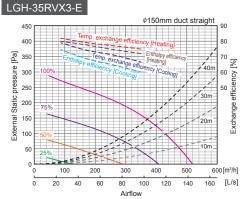
### Characteristic curve



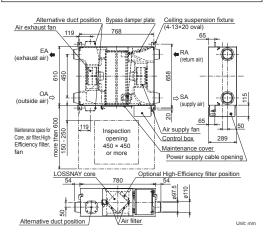
\*The dotted lines of the fan curves are reference values.

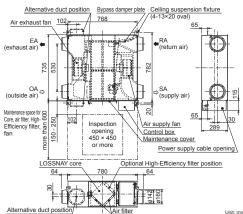


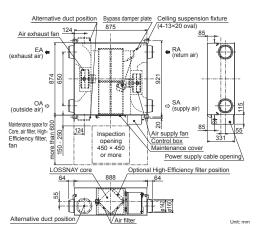
\*The dotted lines of the fan curves are reference values.



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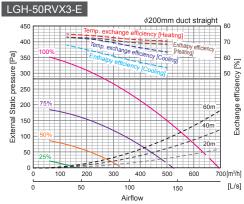


Model		l	LGH-50	RVX3-E		ا	LGH-65	RVX3-E		l	LGH-80	RVX3-E	
Electrical power sup	ply	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default Airflow setting	g	100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)*1		185	81	34	15	245	120	51	20	343	160	64	23
Airflow <sup>*1</sup>	(m <sup>3</sup> /h)	500	375	250	125	650	488	325	163	800	600	400	200
All llow	(L/s)	139	104	69	35	181	135	90	45	222	167	111	56
Specific fan power [W/(L/s)] <sup>*1</sup>		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	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
efficiency (%) <sup>*2</sup>	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	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
efficiency (%)*2	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 ra	atio (%)*4		į	5			Ę	5			į	5	
Weight (kg)			3	3			4	1			4	7	
Maximum input pow	er (W)		27	77			36	30			50	03	

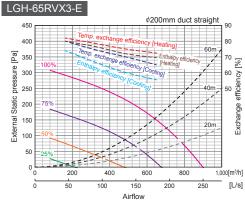
\*Input power, efficiency, and noise are based on rated air volume, 230V/50Hz and horizontal installation.

- \*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

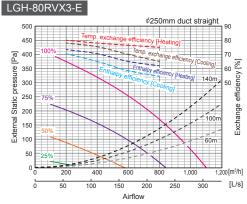
### Characteristic curve



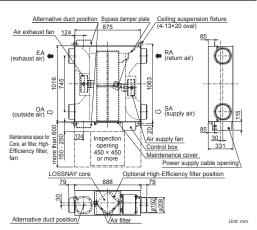
\*The dotted lines of the fan curves are reference values.

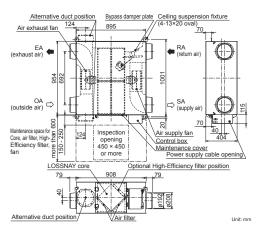


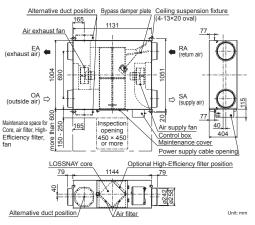
\*The dotted lines of the fan curves are reference values.



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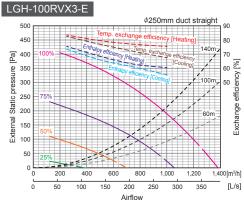
Model		L	.GH-100	RVX3-I	E	L	.GH-160	RVX3-l		L	.GH-200	RVX3-I	
Electrical power sup	ply	220	-240V/50H	lz, 220V/6	0Hz	220	-240V/50H	lz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default Airflow setting	ıg	100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
Input power (W)*1		438	210	83	27	687	324	128	45	855	416	163	57
Airflow <sup>*1</sup>	(m <sup>3</sup> /h)	1000	750	500	250	1600	1200	800	400	2000	1500	1000	500
AIIIIOW	(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	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
efficiency (%)*2	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 (%) <sup>2</sup>	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
efficiency (%)*2	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 ra	atio (%) <sup>*4</sup>		ţ	5			ţ	5				5	
Weight (kg)			5	3			9	6			10	08	
Maximum input pow	er (W)		64	16			79	98		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

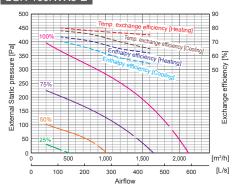
\*3: A-weighted sound pressure level measured at 1.5m under the center of the unit in an anechoic chamber. \*4: Measured according to EN308: 2022 / FS3

### Characteristic curve



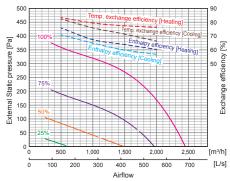
\*The dotted lines of the fan curves are reference values

### LGH-160RVX3-E

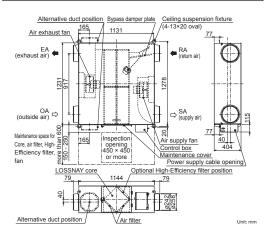


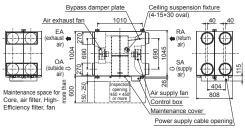
\*The dotted lines of the fan curves are reference values.

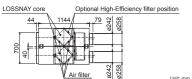
### LGH-200RVX3-E

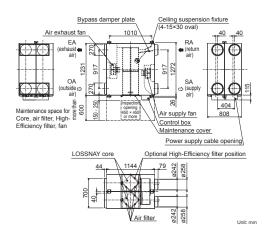


\*The dotted lines of the fan curves are reference values







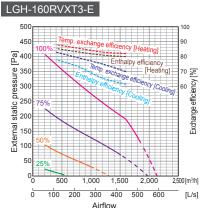


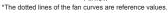
# **RVXT3** SERIES

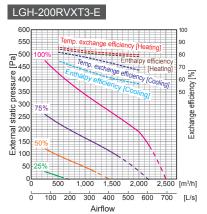
Model			LGH-160	RVXT3-E		ı	LGH-200	RVXT3-E		ı	LGH-250	RVXT3-E	
Electrical power supp	oly	380-415\	V/3N~ 50H	łz, 380V/3	N~ 60Hz	380-415	V/3N~ 50H	łz, 380V/3	N~ 60Hz	380-415	V/3N~ 50H	łz, 380V/3	N~ 60Hz
Fan speed		4	3	2	1	4	3	2	1	4	3	2	1
Default airflow setting	9	100%	75%	50%	25%	100%	75%	50%	25%	100%	75%	50%	25%
	L1-N	0	0	0	0	0	0	0	0	0	0	0	0
Input power (W)*1	L2-N	354	184	72	23	522	249	96	28	724	348	142	43
input power (vv)	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	(m³/h)	1600	1200	800	400	2000	1500	1000	500	2500	1875	1250	625
Allilow	(L/s)	444	333	222	111	556	417	278	139	694	521	347	174
Specific fan power (W/(L/s)) <sup>*1</sup>		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) <sup>*1</sup>	190	107	48	12	190	107	48	12	190	107	48	12
Temperature exchange	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
efficiency (%)*2	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	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
efficiency (%)*2	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	(%) <sup>*4</sup>		5	.0			5	.0			5	.0	
Weight (kg)			17	72			17	72			17	72	
Maximum input power (W) (380-415V 3N~ 50Hz/380V 3N~ 60Hz)	Total		740-72	20/740			1060-10	40/1060			1480-14	60/1500	

<sup>\*</sup> Input power, efficiency, and noise are based on rated airflow, 4001/50Hz. \*\* In bypass mode, the maximum airflow is 70% of heat recovery mode. The same applies to the Night-purge function. 1: Measured according to EN3305: 2019 \*2: Measured according to EN3308: 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

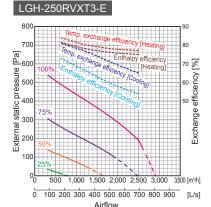
### Characteristic curve







\*The dotted lines of the fan curves are reference values. \*Leader-follower function is not available when external static pressure is more than 460Pa.



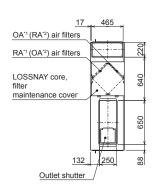
\*The dotted lines of the fan curves are reference values. \*Leader-follower function is not available when external static pressure is more than 460Pa.

### Outline drawings

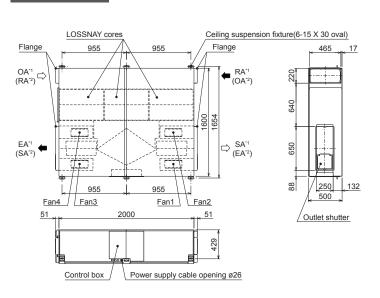
### LGH-160RVXT3-E

### 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



\*Specifications may be subject to change without notice

Unit (mm)

# **RVS** SERIES

Model			LGH-50	RVS-E		LGH-80RVS-E				LGH-100RVS-E			
Electrical power supp	oly	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz	220	-240V/50H	łz, 220V/6	0Hz
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 <sup>3</sup> /h)	500	375	250	125	800	600	400	200	1000	750	500	250
All llow	(L/s)	139	104	69	35	222	167	111	56	278	208	139	69
Specific fan power (V	V/(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 pressu	ıre (Pa)	150	84	38	9	170	96	43	11	190	107	48	12
Temp. exchange efficie	ency (%)	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 r	atio (%)		ţ	5			į	5				5	
Weight	55kg (67k	kg with ma	ximum dra	ain water)	63kg (77k	kg with ma	ximum dra	ain water)	73kg (89l	kg with ma	ximum dra	ain water)	
Maximum input power (W) (220-240V 50Hz/220V 60Hz)		361-360/359			622-621/619			691-782/679					

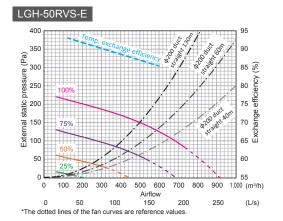
The input power, the efficiency and the noise are based on the rating air volume, and 230V/50Hz. Temperature exchange efficiency (%) is measured at indoor DB 20°C/ WB 15°C and outdoor DB 5°C/ WB 3°C. It is measured according to ISO16494.

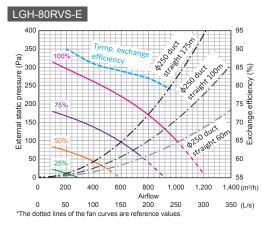
When the indoor humidity is low and condensation in the heat exchanger does not occur, the exchange efficiency may be decreased in winter.

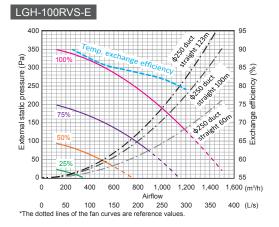
The absolute humidity of RA shall be lower than 0.0139kg/kg(DA) in winter and the relative humidity of RA shall be lower than 90%RH through the year.

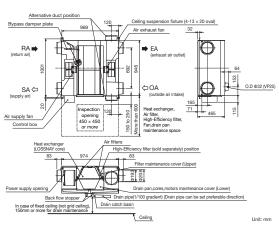
Examples of the absolute humidity 0.0139kg/kg(DA) are 20.7°C 90%RH, 25°C 70%, 30°C 50% etc.

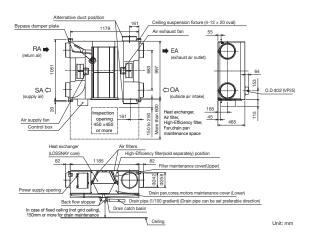
### Characteristic curve

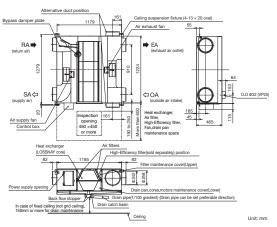












# **GUF** SERIES

Model				GUF-5	0RD4			GUF-1	00RD4		
Electrical p	ower suppl	у		220-240	V/50Hz			220-240	V/50Hz		
Ventilation	mode		Heat reco	very mode	Bypass	s mode	Heat reco	very mode	Bypas	s mode	
Fan speed			High	Low	High	Low	High	Low	High	Low	
Running cu	ırrent (A)		1.15	0.70	1.15	0.70	2.20	1.73	2.25	1.77	
Input powe	r (W)		235-265	150-165	235-265	150-165	480-505	370-395	490-515	385-410	
Airflow		(m³/h)	500	400	500	400	1000	800	1000	800	
Allilow		(L/s)	139	111	139	111	278	222	278	222	
External sta	atic pressur	e (Pa)	140	90	140	90	140	90	140	90	
Temperature e	exchange effic	eiency (%)	77.5	80	-	_	79.5	81.5	_	_	
Enthalpy	Enthalpy exchange Heating		68	71	-	-	71	74	-	_	
efficiency (	%)	Cooling	65	67	-		69	71	-	_	
Cooling cap	pacity (kW)			5.57 (	(1.94)		11.44 (4.12)				
Heating cap	pacity (kW)			6.21 (	(2.04)			12.56	(4.26)		
Capacity equi	valent to the ir	ndoor unit		P	32			P	63		
	Humidifying	9		-	-			_	-		
Humidifier	Humidifying ca	pacity (kg/h)		-	-			-	-		
	Water supply pressure			_	_			_	_		
Noise (dB) (Measured at 1.5	5m under the cer	nter 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)	Weight (kg)			4	8		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

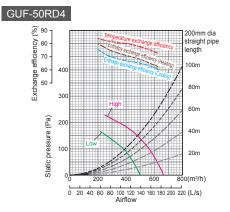
Heating: Indoor: 20°C DB/13.8°C WB Outdoor: 7°C DB/6°C WB

\*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.

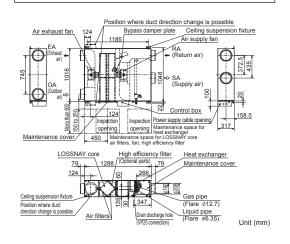
\*When the total capacity of indoor units connected to 1 outdoor unit (PUHY or PURY) exceeds the capacity of the outdoor unit, the total capacity of GUF needs to be 30% and less of the connected outdoor unit capacity.

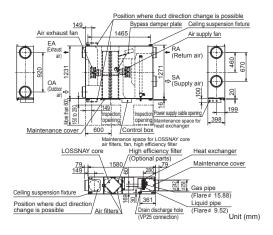
### Characteristic curve



### GUF-100RD4 Exchange efficiency (%) 09 06 06 straight pipe 40 50 100m 300 (Pa) 80m 20 60m Static pressure 40m 100 20m 400 (m<sup>3</sup>/h) 150 200 250 300 350 400 (L/s) Airflow 50

### Outline drawings

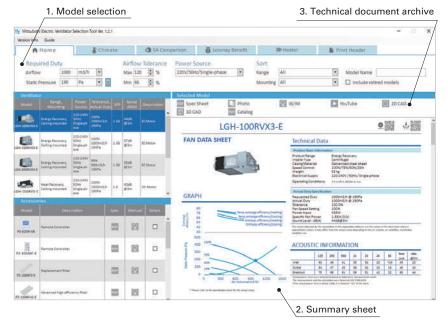




\*Specifications may be subject to change without notice.

### 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

..and more!

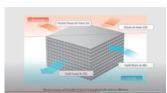
### LOSSNAY YouTube Channel

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





<sup>\*</sup>This image is for illustration purpose and actual data may vary.

<sup>\*</sup>Ratings and specifications may change due to product improvements or modifications.

# **CONTROL TECHNOLOGIES**

# **Compatibility Table**

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	Model	PZ-62DR-EA/EB	PZ-43SMF-E					
Dimension    Name	lmage	17 100 (1.6) 15 (0) (0) (2) (7) (1.6) 10 (1.6) 1	TOMES FATTE					
Remote Controller Compatibility Table	Dimension	(1000m) (200 m) (1000m) (1000m						
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 CO₂ sensor)         2 of 4 fan speeds           Control with a CO₂ sensor (Mitsubishi Electric and field supply)         Yes         No           Ventilation mode selection         Energy recovery/Bypass/Auto         Energy recovery/Bypass/Auto           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           Weekly dimer         Yes         No           Flexible airflow setting         Yes         Yes           ON/OFF timer         Yes         No           Auto-off timer         Yes         No           Weekly timer         Yes         No           Fan speed timer         Yes         No		Unit (mm)	Unit (mm)					
Compatible series         LGH-RVX3/RVXT3/RVS         LGH-RVX3/RVXT3/RVS           Fan speed selection         4 fan speeds and Auto (Auto is available when using a CO2 sensor)         2 of 4 fan speeds           Control with a CO2 sensor (Mitsubishi Electric and field supply)         Yes (Fan speed automatically changes from 25% to 100% depending on the CO2 concentration*)         No           Ventilation mode selection         Energy recovery/Bypass/Auto         Energy recovery/Bypass/Auto           No         Energy recovery/Bypass/Auto         Energy recovery/Bypass/Auto           No         Function setting with remote controller         Yes         No           Bypass temp. free setting         Yes         No           Exercise 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)         Yes         No           Coreen contrast adjustment         Yes         No           Language selection         Yes (17 languages)         No (English only)           Co, concentration		Remote Controller Compatibility Ta						
Fan speed selection  4 fan speeds and Auto (Auto is available when using a CO <sub>2</sub> sensor)  Yes (Fan speed automatically changes from 25% to 100% depending on the CO <sub>2</sub> concentration*)  Ventilation mode selection Wight purge  Flexible airflow setting  Flexible airflow setting  No  No  No  No  Flexible airflow setting  No  No  Flexible airflow setting  Yes  No  No  No  No  No  No  No  No  No  N	Model name	PZ-62DR-EA/EB						
Control with a CO2 sensor (Mitsubishi Electric and field supply)  Ventilation mode selection  Energy recovery/Bypass/Auto  Energy recovery Rypass/Auto  Energy recovery Rypass/Auto  No  (ONOF	Compatible series	LGH-RVX3/RVXT3/RVS	LGH-RVX3/RVXT3/RVS					
Control With a CO <sub>2</sub> sensor (Mitsubishi Electric and field supply)  Ventilation mode selection  Energy recovery/Bypass/Auto  No   Energy recovery/Bypass/Auto  Energy recovery/Bypass/Auto  Energy recovery/Bypass/Auto  Energy recovery/Bypass/Auto  No   Energy recovery/Bypass/Auto  Energy recovery/Bypass/Auto  No  No  Energy recovery/Bypass/Auto  No  Energy recovery  No  No  No  Pass  No  No  Energy recovery  No  No  No  No  No  Energy recovery  No  No  No  No  Energy recovery  No  No  No  No  En	Fan speed selection		2 of 4 fan speeds					
Night purge     Yes     No       Function setting with remote controller     Yes     No       Bypass temp, free setting     Yes     No       Flexible airflow setting     (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)     Yes     No       (Designation restrictions (fan speed)     No     No       (Displays model name, serial number, contact information)     Yes       No     No       Error history     Yes     No		(Fan speed automatically changes from 25% to	No					
Function setting with remote controller  Bypass temp. free setting  Yes  (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)  ON/OFF timer  Auto-off timer  Yes  Auto-off timer  Yes  No  Weekly timer  Yes  No  Operation restrictions (ON/OFF, ventilation mode, fan speed)  Operation restrictions (fan speed skip setting)  Screen contrast adjustment  Auguage selection  Yes  Yes  No  No  Misubishi Electric and field supply)  Filter cleaning sign  Yes (Displays model name, serial number, contact information)  Error history  Yes  No  No  No  No  No  No  No  No  No  N	Ventilation mode selection	Energy recovery/Bypass/Auto	Energy recovery/Bypass/Auto					
Process	Night purge	Yes	No					
Flexible airflow setting  (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)  Personance of timer  Yes  Auto-off timer  Yes  Auto-off timer  Yes  No  Weekly timer  Yes  No  Operation restrictions (ON/OFF, ventilation mode, fan speed)  Personance of timer  Yes  No  Operation restrictions (fan speed skip setting)  Screen contrast adjustment  Yes  No  Cooconcentration indication (Mitsubishi Electric and field supply)  Filter cleaning sign  Yes (Maintenance interval can be changed)  Yes  Error indication  Yes  No  No  No  Yes  No  No  Yes  No  Yes  No  Yes  No  Yes  No  Yes  No  No  Yes  No  No  Yes  No  No  Yes  No  No  No  No  No  No  No  No  No  N	Function setting with remote controller	Yes	No					
Content   Flexible airflow setting   (Both supply and exhaust fan speeds can be set separately from 25% to 100% in 5% pitches)	Bypass temp. free setting	Yes	No					
Auto-off timer  Auto-off timer  Yes  No  Weekly timer  Yes  No  Operation restrictions (ON/OFF, ventilation mode, fan speed)  Operation restrictions (fan speed skip setting)  Screen contrast adjustment  Yes  No  CO2 concentration indication (Mitsubishi Electric and field supply)  Filter cleaning sign  Yes (Maintenance interval can be changed)  Yes  CDSNAY core cleaning sign  Yes  Yes  (Displays model name, serial number, contact information)  Yes  No  Yes  Yes  No  Yes  Yes  No  Yes  No  Yes  No	Flexible airflow setting	(Both supply and exhaust fan speeds can be set	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)         CO2 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	ON/OFF timer	Yes	Yes					
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)         CO2 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	Auto-off 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)         CO2 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	Weekly timer							
(ON/OFF, ventilation mode, fan speed)  Operation restrictions (fan speed skip setting)  Screen contrast adjustment  Language selection  CO2 concentration indication (Mitsubishi Electric and field supply)  Filter cleaning sign  Yes (Maintenance interval can be changed)  Yes  COSSNAY core cleaning sign  Yes (Maintenance interval can be changed)  Yes  COSSNAY core cleaning sign  Yes/No (RVS Series)  No  Yes  (Displays model name, serial number, contact information)  Frror history  Yes  No	•	Yes	No					
Screen contrast adjustment   Yes   No		Yes	No					
Screen contrast adjustment       Yes       No         Language selection       Yes (17 languages)       No (English only)         CO2 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		Yes	No					
CO2 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		Yes	No					
(Missubishi Electric and field supply)     Yes       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	Language selection	Yes (17 languages)	No (English only)					
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	CO <sub>2</sub> concentration indication (Mitsubishi Electric and field supply)	Yes	No					
Error indication     Yes (Displays model name, serial number, contact information)     Yes       Error history     Yes     No	Filter cleaning sign	Yes (Maintenance interval can be changed)	Yes					
Error indication (Displays model name, serial number, contact information)  Fror history Yes No	LOSSNAY core cleaning sign	Yes/No (RVS Series)	No					
	Error indication		on) Yes					
OA/RA/SA temp. display Yes No	Error history	Yes	No					
110	OA/RA/SA temp. display	Yes	No					

<sup>\*</sup>When using a CO<sub>2</sub> 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	•	•	•	•	•		•	•				•			•		•

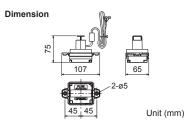
### CO<sub>2</sub> Sensors

 $Connecting \ a \ CO_2 \ sensor \ directly \ to \ the \ LOSSNAY \ unit \ will \ optimize \ fan \ speed \ according \ to \ the \ level \ of \ CO_2 \ detected.$ 

### PZ-70CSD-E (Duct-mounted type)

Mounted in the duct with all the wiring hidden in the ceiling.

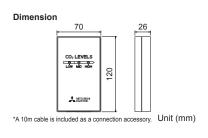




### PZ-70CSW-E (Wall-mounted type)

Mounted on the wall. CO2 is monitored in 3 levels.





### **Vertical Installation Plates**

### PZ-1VS-E, PZ-2VS-E



Parts used to install RVX3 vertically.

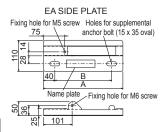
EA side plate RA side plate

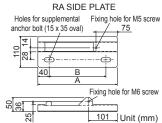
### Change dimension table (Unit: mm)

Model	А	В	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

<sup>\*</sup>Not applicable to LGH-160/200RVX3-E

### Dimension





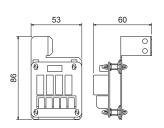
### Signal Output Terminal

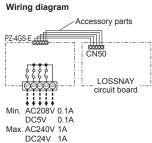
### PZ-4GS-E



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 work must be performed by a qualified

(Up to 1.5A for common terminals)

### **Duct Silencer**



The duct silencer connects to the LOSSNAY unit to reduce airflow noise.

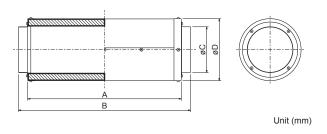
### Specifications

Model	Airflow	Attenu	uation of s	ound pov	ver level [d	dB] at cen	ter freque	ncy (discl	harge)
Model	(m³/h)	62.5Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
PZ-100SS-E	50	0	3	5	7	6	6	6	8
FZ-10033-E	150	0	3	6	7	7	7	7	9
PZ-150SS-E	250	0	1	5	8	15	21	20	14
PZ-15055-E	350	0	1	4	8	14	21	21	16
DZ 20000 F	500	0	1	4	7	13	18	16	9
PZ-200SS-E	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

- Figures in the chart above are based on a comparison with a general steel duct of the same length.
   The silencer is placed just before the outlet during the measurement.
   When the airflow rate differs, attenuation will also differ from the chart above.
   Figures in the chart above are flat (not-weighted) values.

- Some ratings and specifications may change due to product improvements or modifications.

### Dimension



### Change dimension table (Unit: mm)

. 5			,			
Model	А		С	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**

LOSSI	YAY				Filter		
						Classification	
	Fil	ter					
Model	Standard Setting	Optional Setting	Name	Model	Material	ISO 16890: 2016	EN779: 2012
A	•		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
LGH-RVX3 Series		●*1	Advanced high-efficiency filter (F8 filter)	PZ-**RFH3-E	Synthetic fiber	-	F8
	•		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
LGH-RVXT3 Series		●*1	Advanced high-efficiency filter (F8 filter)	PZ-250THFR-E	Synthetic fiber	-	F8
	•		Replacement filter (Coarse 50% filter)	PZ-S**RF-E	Non-woven fabric	Coarse 50%	G3
		•	High-efficiency filter (ePM10 80% filter)	PZ-S**RFM-E	Synthetic fiber	ePM10 80%	M6
LGH-RVS Series		•	Advanced high-efficiency filter (ePM1 65% filter)	PZ-S**RFH-E	Synthetic fiber	ePM1 65%, ePM2.5 75%, ePM10 90%	F8
	•		Replacement filter (Coarse 35% filter)	PZ-**RF8-E	Non-woven fabric	Coarse 35%	G3
		•	High-efficiency filter (ePM10 75%)	PZ-**RFM-E	Noncombustible fiber	ePM10 75%	_
GUF Series		•	Advanced high-efficiency filter (ePM1 75%)	PZ-**RFP2-E	Synthetic fiber	ePM1 75%, ePM2.5 80%, ePM10 95%	

<sup>\*1:</sup> Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings)

# For LGH-RVX3 SERIES

		Filter					Package		stallatio		
Image	Model		Dime	ension (	mm)	Pieces per	number for	1	lumbers	of filte	rs
	lilloud.	Applicable model	L	W	Н	package	replacement		OA	RA	Į
Replacement filter	PZ-15RF3-E	LGH-15RVX3-E	549	125	20	2	1	2	1	1	
Coarse 60% filter)	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	T
	PZ-00RF3-E	LGH-160RVX3-E	090	236	15	2	2	4	2	2	Τ
	D7 400DE2 E	LGH-100RVX3-E	4447	220	45	2	1	2	1	1	Ì
	PZ-100RF3-E	LGH-200RVX3-E	1117	238	15	2	2	4	2	2	T
Advanced	PZ-15RFP3-E	LGH-15RVX3-E	542	104.5	25	1	1	1	_	_	Ť
nigh-efficiency filter	PZ-25RFP3-E	LGH-25RVX3-E	322	128.5	25	2	1	2	_	_	T
ePM1 75% filter)	PZ-35RFP3-E	LGH-35RVX3-E	390	158.5	25	2	1	2	-	_	t
	PZ-50RFP3-E	LGH-50RVX3-E	461	158.5	25	2	1	2	_	_	Ť
	PZ-65RFP3-E	LGH-65RVX3-E	423	197.5	25	2	1	2	_	_	Ť
		LGH-80RVX3-E				_	1	2	_	_	Ť
	PZ-80RFP3-E	LGH-160RVX3-E	442	215.5	25	2	2	4	-	_	Ť
		LGH-100RVX3-E				_	1	2	_	_	Ť
	PZ-100RFP3-E	LGH-200RVX3-E	554	215.5	25	2		4	_	_	Ť
High-efficiency	PZ-15RFM3-E	LGH-15RVX3-E	542	125	13	1	1	1	1	_	Ť
ilter*2 (M6 filter)	PZ-25RFM3-E	LGH-25RVX3-E	322	151	13	2	1	2	2	_	t
	PZ-35RFM3-E	LGH-35RVX3-E	390	178	13	2	1	2	2	_	Ť
	PZ-50RFM3-E	LGH-50RVX3-E	461	178	13	2	1	2	2	_	t
	PZ-65RFM3-E	LGH-65RVX3-E	423	213	13	2	1	2	2	_	t
		LGH-80RVX3-E				_	1	2	2	_	t
	PZ-80RFM3-E	LGH-160RVX3-E	442	238	13	2		4	4	_	t
		LGH-100RVX3-E				_	1	2	2	_	t
	PZ-100RFM3-E	LGH-200RVX3-E	554	238	13	2		4	4	_	t
) dy can and	PZ-15RFH3-E	LGH-15RVX3-E	542	104.5	25	1	1	1	_	_	t
Advanced nigh-efficiency	PZ-25RFH3-E	LGH-25RVX3-E	322	128.5	25	2	1	2	_	_	t
ilter*2	PZ-35RFH3-E	LGH-35RVX3-E	390	158.5	25	2	1		_	_	t
F8 filter)	PZ-50RFH3-E	LGH-50RVX3-E	461	158.5	25	2	1	2	_	_	t
	PZ-65RFH3-E	LGH-65RVX3-E	423	197.5	25	2	1	2	_	_	t
		LGH-80RVX3-E					1		_	_	t
	PZ-80RFH3-E	LGH-160RVX3-E	442	215.5	25	2	2	4	_	_	t
	<b></b>	LGH-100RVX3-E					1	2	_	_	t
	PZ-100RFH3-E	LGH-200RVX3-E	554	215.5	25	2	2	4	<u> </u>		+

<sup>\*2:</sup> Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings

# For LGH-RVXT3 SERIES

	Filter												Installa	tion l	ocatio	n
					Din	nensi	on (n	nm)		Pieces	Package		Numb	ers of	filters	
Ir	mage	Model	Applicable model		Short			Long		per	number for replacement		OA	RA	S	A
			Applicable model	L	w	Н	L	w	Н	package			Long	Long	Short	Long
Replace (Coarse filter)	ement filter e 60%	PZ-250TRF-E		-	-	-	995	285	15	Long : 4	1	4	2	2	-	-
efficien	ced high- icy filter 75% filter)	PZ-250TPF-E	LGH-160RVXT3-E	663	286	25	1327	286	25	Short : 1 Long : 1	1	2	-	-	1	1
	fficiency 16 filter) <sup>3"</sup>	PZ-250TMFR-E	LGH-200RVXT3-E LGH-250RVXT3-E	-	-	-	1003	283	13	Long : 2	1	2	2	-	-	-
	ced high- icy filter er)*3	PZ-250THFR-E		663	286	25	1327	286	25	Short : 1 Long : 1	1	2	-	-	1	1

<sup>\*3:</sup> Designed for the Spanish market to comply with RITE (Regulation of Thermal Installations of Buildings)

# For LGH-RVS SERIES

		Filter					Package Installation loca				on
Image	Model		Dime	ension	(mm)	Pieces per	number for	N	umbers	of filter	rs
iiiaye	Model	Applicable model	L	W	Н	package	replacement		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	PZ-S50RFH-E	LGH-50RVS-E	412	203	25	2	1	2	2	_	_
(ePM1 65% filter)	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									Installation location			
Image	Model		Dime	ension	(mm)	Pieces per		Package number for	ĺ	N	umbers	of filter	's
iiiaye	Wodel	Applicable model	L	W	Н	package		replacement			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	1		2	-	-	2
	PZ-100RFP2-E	GUF-100RD4	559	236	25	2	_	1		2	-	-	2

# 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 (NO2).
\*PM2.5: Airborne particulates that are 2.5µm or smaller in size.

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



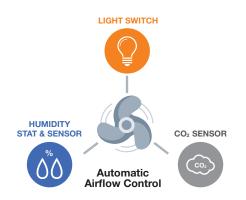
### Variable Airflow Control

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.

# (static pressure) 100% Airflow can be adjusted by 19 Q (airflow)

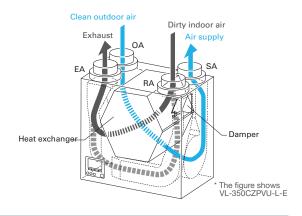
### **External Airflow Control**

The airflow from the LOSSNAY unit can be altered using 0-10V signals from the controllers, such as the humidity stat and CO<sub>2</sub> sensor (field supply). The LOSSNAY unit is also connected to the light switch which can boost operation mode (input 220-240V). These devices are connected directly to the LOSSNAY unit, allowing automatic fan speed control according to bathroom occupation, CO2 level, and humidity level.



### Automatic Bypass Mode

It is possible to switch between "LOSSNAY ventilation (with heat exchange)" and "Bypass ventilation (without heat exchange)" either manually or automatically. When outside air is cooler than indoor air in summer, the unit directly draws in outside air, bypassing the heat exchanger.



### 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)



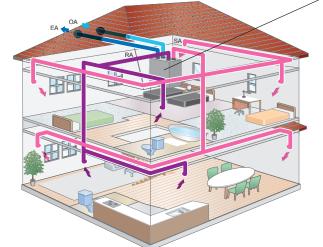
# **Isntallation Image**

### **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.

- ✓ Heat Exchanger
- √ Whole-house Solution
- ✓ Air Purification
- ✓ Quiet Operation
- ✓ MELCloud Control







VE250/350/500CZPV0-EE

2F

bedroom

OA

Bathroom

down

bathroom



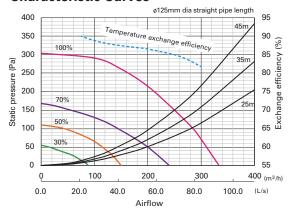
# **Specifications** VL-CZPVU SERIES

Model VL-250CZPVU-R/L-E							
Electrical power supp	ly	22	0-240V/50H	z, 220V-/60	Hz		
Ventilation mode			Heat reco	very mode			
Fan speed		FS4 (100%)	FS3 (70%)	FS2 (50%)	FS1 (30%)		
Running current (A)		0.76	0.35	0.20	0.12		
Input power (W)		106	44	23	11		
Airflow	$(m^3/h)$	250	175	125	75		
All llow	(L/s)	69	49	35	21		
External static pressu	ıre (Pa)	150	74	38	14		
Temperature exchange efficiency	ciency (%)	85	87	88	90		
Noise level (dB)		31	22	16	15>		
Energy efficiency class	SS		Α	+			
Weight (kg) 26							
Dimensions (mm) (H) 565 x (W) 595 x (D) 356							

### ■ Attention

- Above values are at factory default.
   Running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
   Sound pressure level at 3 m is pikerical.
   Temperature exchange efficiency (%) is based on winter condition.
   Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.
   Specifications may be subject to change without notice.

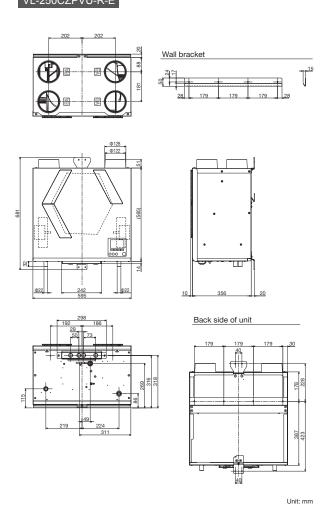
### **Characteristic Curves**



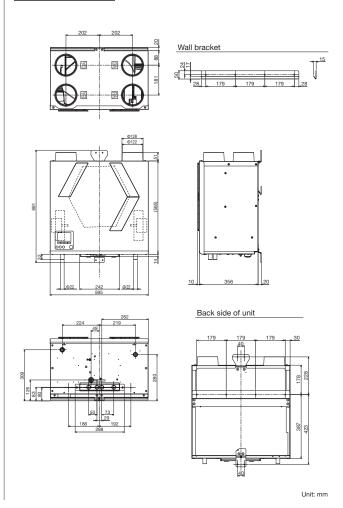
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

### **Dimensions**

### VL-250CZPVU-R-E



### VL-250CZPVU-L-E

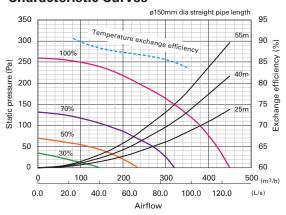


Model		VL-350CZPVU-R/L-E							
Electrical power supp	oly	22	0-240V/50H	lz, 220V-/60	Hz				
Ventilation mode			Heat reco	very mode					
Fan speed		FS4 (100%) FS3 (70%) FS2 (50%) FS1 (30							
Running current (A)		1.08	0.52	0.31	0.18				
Input power (W)		155	71	71 37 19					
Airflow	(m <sup>3</sup> /h)	320	224	160	96				
Allilow	(L/s)	89	62	44	27				
External static pressu	ire (Pa)	150	74	38	14				
Temperature exchange effi	ciency (%)	85	87	88	90				
Noise level (dB)		35	26	19	15>				
Energy efficiency class	SS		Α	+					
Weight (kg)		32							
Dimensions (mm)		(H	l) 623 x (W)	658 x (D) 4	32				

### ■ Attention

- Above values are at factory default.
   Running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
   Sound pressure level at 3 m is pikerical.
   Temperature exchange efficiency (%) is based on winter condition.
   Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.
   Specifications may be subject to change without notice.

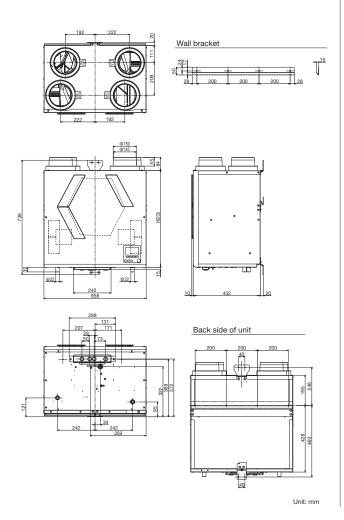
### **Characteristic Curves**



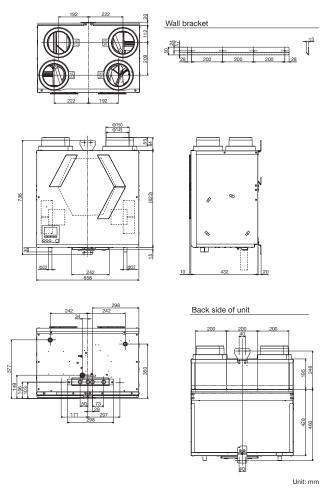
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

### **Dimensions**

### VL-350CZPVU-R-E



### VL-350CZPVU-L-E

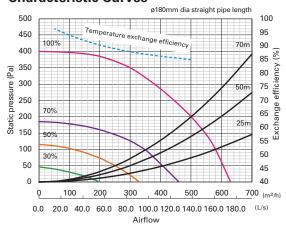


Model		V	L-500CZ	PVU-R/L	-E			
Electrical power supp	oly	220-240V/50Hz, 220V-/60Hz						
Ventilation mode			Heat reco	very mode				
Fan speed	FS4 (100%) FS3 (70%) FS2 (50%) FS1 (3							
Running current (A)		1.73	0.77	0.40	0.19			
Input power (W)		275	104	4 49 21				
Airflow	(m <sup>3</sup> /h)	500	350	250	150			
Allilow	(L/s)	139	97	69	42			
External static pressu	ıre (Pa)	200	98	50	18			
Temperature exchange effi	ciency (%)	85	87	89	92			
Noise level (dB)		37	29	22	15>			
Energy efficiency class	SS		Α	+				
Weight (kg)	Weight (kg) 39							
Dimensions (mm)		(H	l) 632 x (W)	725 x (D) 5	56			

### ■ Attention

- Above values are at factory default.
   Running current, the input power, the efficiency and the noise are based on the rating airflow, and 230V/50Hz.
   Sound pressure level at 3 m is pikerical.
   Temperature exchange efficiency (%) is based on winter condition.
   Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.
   Specifications may be subject to change without notice.

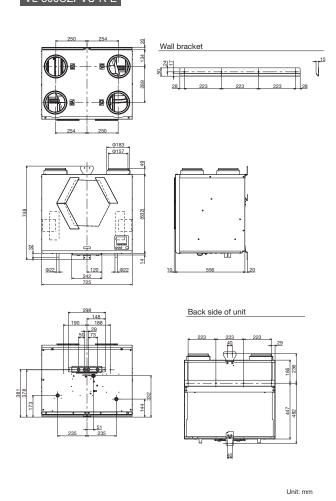
### **Characteristic Curves**



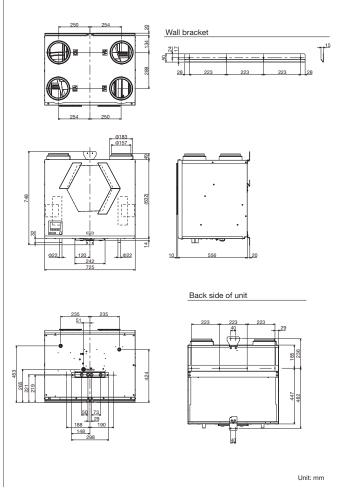
Mitsubishi Electric measures figures in the chart according to EN13141-7: 2010, and the characteristic curves are measured by chamber method.

### **Dimensions**

### VL-500CZPVU-R-E



### VL-500CZPVU-L-E



# **Silencer Box**

Noise level can be further decreased by using a silencer box.





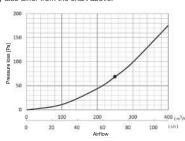
### P-250SB-E

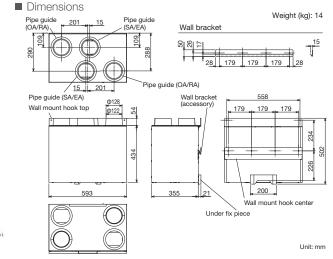
■ Attenuation of sound power level for center frequency

Airflow (m³/h)	Static pressure	Point	Attenu	ttenuation of sound power level for center frequency Hz (dB)										
(111711)	(Pa)		63	125	250	500	1000	2000	4000	8000				
175	74	Outlet (SA/EA)	9	7	11	19	29	28	21	13				

- 1. Figures in the chart above are measured by Mitsubishi Electric.
- The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
- 3. When airflow differs, attenuation may also differ from the chart above.
- Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.





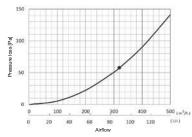
### P-350SB-E

■ Attenuation of sound power level for center frequency

Airflow (m³/h)	Static pressure	Point	Attenu	Attenuation of sound power level for center frequency Hz (dB)										
(111711)	(Pa)		63	125	250	500	1000	2000	4000	8000				
224	74	Outlet (SA/EA)	12	8	11	21	32	29	19	12				

- 1. Figures in the chart above are measured by Mitsubishi Electric.
- 2. The silencer box is placed just after the outlet of the LOSSNAY unit as specified in the Installation Manual.
- 3. When airflow differs, attenuation may also differ from the chart above.
- Pressure loss curve

The curve on the right shows the total pressure drop of the OA and SA or RA and EA ducts in the silencer box.



# Pipe guide (OA/RA) Pipe guide (SA/EA) Wall bracket (accessory) Wall bracket (accessory) Wall mount hook top Under fix piece Wall mount hook center

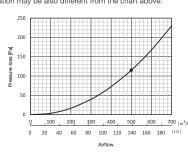
### P-500SB-E

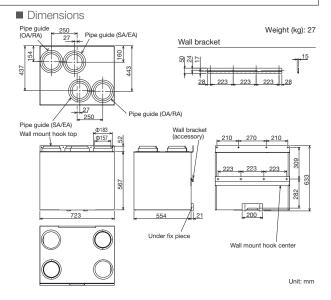
■ Attenuation of sound power level for center frequency

Airflow (m³/h)	Static pressure	Point	Attenu	Attenuation of sound power level for center frequency Hz (dB)								
(111711)	(Pa)		63	125	250	500	1000	2000	4000	8000		
350	98	Outlet (SA/EA)	10.5	9.5	13.0	21.0	27.0	29.0	26.0	14.0		

- 1. Figures on the chart above are measured by Mitsubishi Electric.
- 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.

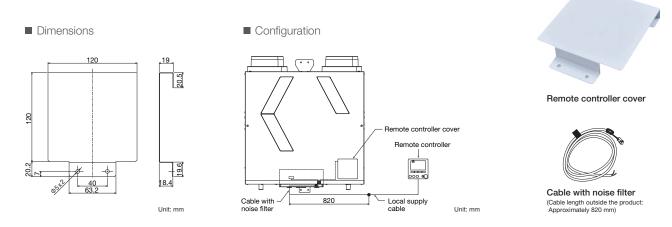




Unit: mm

# **Remote Controller Cover**

By attaching a Remote Controller Cover, the remote controller can be installed at a distance from the unit.



# **Filters**

Тур	oe	Replacement filter	Standard filter	Medium efficiency filter	Advanced efficiency filter	Advanced high efficiency filter	NOx Filter
		P-250F-E	P-250SF-E	P-250MF-E	P-250PF-E	P-250PFH-E	P-250NF-E
Mod	del	P-350F-E	P-350SF-E	P-350MF-E	P-350PF-E	P-350PFH-E	P-350NF-E
		P-500F-E	P-500SF-E	P-500MF-E	P-500PF-E	P-500PFH-E	P-500NF-E
Classification	EN779 (2012)	G3	G4	M6	M6	ePM <sub>1</sub> 55%	NO 000/
Classification -	ISO 16890 (2016)	Coarse 55%	Coarse 90%	ePM <sub>10</sub> 80%	ePM2.5 50%	6LINI 22%	NO <sub>2</sub> 90%

# **VL-50**

Wall-mounted models particularly suited for houses and small offices.



VL-50(E)S<sub>2</sub>-E VL-50SR<sub>2</sub>-E

### Decentralized Ventilation: VL-50(E)S2-E and VL-50SR2-E

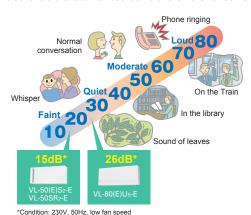
### **Product advantages**

# Air is supplied and exhausted simultaneously

Air is supplied and exhausted simultaneously while transferring the heat.



Low noise levels are ideal for bedrooms and children's rooms.



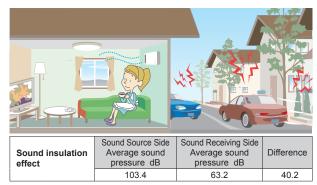
### **Energy efficient**

- Total heat exchange minimizes heat loss.
- Achieve over 80%\* temperature efficiency.

\*VL-50(E)S2-E at low fan speed at 230V 50Hz

### Sound insulation

A sound insulation effect reduces the level of noise generated outside.

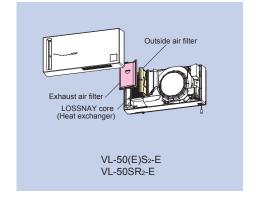


<sup>\*</sup>Tested using VL-08S2-AE

VL-08S<sub>2</sub>-AE is a Japanese dedicated model equivalent to VL-50(E)S<sub>2</sub>-E

### Easy maintenance

The only maintenance required is cleaning the outside air filter and exhaust air. Filters are easily accessible, making quick and thorough cleaning possible.



### Flexible Installation for Only VL-50(E)S2-E and VL-50SR2-E

VL-50(E)S2-E and VL-50SR2-E may be installed either horizontally or vertically to fit in various types of rooms.



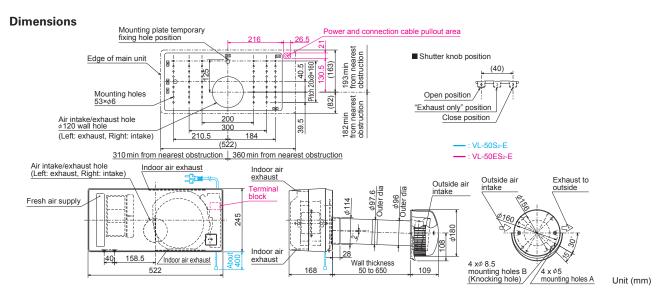
<sup>\*</sup>Measured by average sound pressure level of more than 30dB in 500Hz according to JIS A1416.

# **Specifications**

# $VL-50(E)S_2-E \ \, \text{(VL-50S}_2-\text{E/Pull-Switch Model)} \ \, \text{VL-50ES}_2-\text{E/Wall-Switch Model)}$

Model	VL-50(E)S₂-E								
Electrical power supply	220V	/50Hz	230V	/50Hz	240V	/50Hz	220V/60Hz		
Fan speed	High	Low	High	Low	High	Low	High	Low	
Airflow (m³/h)	51	15	52.5	16	54	17	54	17	
Power consumption (W)	19	4	20	4.5	21	5	21	5.5	
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84	
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5	
Weight (kg)	6.2								
Specific energy consumption class	С								

<sup>\*</sup>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.

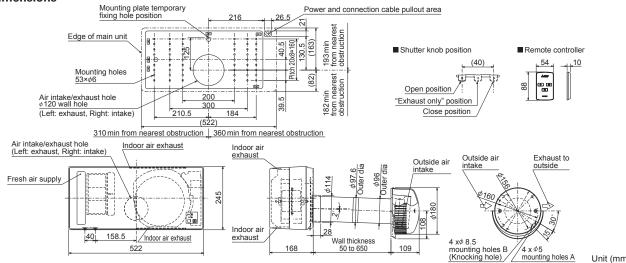


# VL-50SR2-E (Remote Controller Model)

Model	VL-50SR₂-E										
Electrical power supply	220V	/50Hz	230V	/50Hz	240V	/50Hz	220V	/60Hz			
Fan speed	High	Low	High	Low	High	Low	High	Low			
Airflow (m³/h)	51	15	52.5	16	54	17	54	17			
Power consumption (W)	19	4.5	20	5	21	5.5	21	6			
Temperature exchange efficiency (%)	70	86	69	85	68	84	68	84			
Noise level (dB)	36.5	14	37	15	37.5	15.5	37.5	15.5			
Weight (kg)	6.2										
Specific energy consumption class	С										

<sup>\*</sup>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** 



# **Optional Parts**

### Optional Parts for VL-50(E)S2-E and VL-50SR2-E

### Filter, Extension Pipe and Stainless Hood

Type	Replacement Filter	High Efficiency Filter	Extension Pipe	Joint	Stainless Hood
Design					
Model	P-50F <sub>2</sub> -E	P-50HF2-E	P-50P-E	P-50PJ-E	P-50VSQ5-E
Feature	-	-	Total length when connected to the joint is 350mm.	Joint for extension pipe	Stylish stainless hood
Classification (EN779:2012)	G3	-	-	-	-

# **Compatible table**

# **Commercial**

### **Optional Parts List**

Model   Sectional parts   Model   Section														111	111	111					
P2-400NE-AFB   P2-405NE-AFB   P2-4					щ	щ	щ	щ	щ	щ	3-E	3-E	(3-E	Т3-Е	(T3-E	(T3-E	Ш	ш	щ		
P2-400NE-AFB   P2-405NE-AFB   P2-4	Optional parts			XX3	VX3	XX3	XX3	VX3	XX3	NX.	NX X	NS-I	NS-I	RVS	D4	RD4					
P2-400NE-AFB   P2-405NE-AFB   P2-4			15R	25R	35R	50R	65R	80R	1001	1601	2001	1601	2001	250	50R	80R	1001	50R	100		
P2-400NE-AFB   P2-405NE-AFB   P2-4			Mo	odel	늉	유	Ę.	-H5	유.	-H5	유	끍	Ę.	-H5	유	유.	Ę.	-H5	-H5	Ä.	Ä
### P2-458M-E    P2-458M-E   P2-58P3-E   P	1.000	SNI AV	D7 62D	D EA/ED	_		_	_						_	_		_				
PZ-PR-B2						_										_					
P2-PF3-E   P2-39F9-E   P2-39	Tellio	le controller	PZ-43	1		•	_	-	_	•	_	_	_	_	•	_	_	_	_		
P2-PF36   Coame 200   F2-S0RP3-E   P2-S0RP3-E   P2-S0RP					•																-
Roplacement						•															
Filter							•														
Replacement filter  Registry  P2-00073-E  P2-00073-E  P2-00073-E  Registry  P2-00073-E  P2								_													
Replacement filter			,						•												
P.2.50TRF-E   Coanse 50% filter)   P.2.50TRF-E   P.2.50T		Replacement								_		_									
Cloares 69%   P.2.50RFN-E			P7-250TRF-F								_		_								
Course 50%   Filter   P2-SB0RF-E				PZ-250TRF-E										•	•	•					
Classes 50%   filter   PZ-SIORF-E   PZ-SIORF-M-E			PZ-S**RF-E	PZ-S50RF-E													•				
PZ-**RF8-E   PZ-50RF8-E			(Coarse 50%	PZ-S80RF-E														•			
Coarse 35% filter   PZ-100RF9-E   PZ-15RFM3-E   PZ-15RFM			filter)	PZ-S100RF-E															•		
P2-15RFM3-E   P2-25RFM3-E																				•	
P2-"RFN3-E"   P2-"RFN3-E"   P2-SSRFM3-E   P3-SSRFM3-E   P3-SSRFM3-E			(Coarse 35% filter)	PZ-100RF8-E																	•
P2-"RFM3-E				PZ-15RFM3-E	•																
High-efficiency   PZ-SSFRM3-E   PZ-SSFRM3-				PZ-25RFM3-E		•															
High-efficiency   P2-S0TMFR-E   P2-S0TMFR-			D7 ****	PZ-35RFM3-E			•														
P2-68FRM3-E   P2-100FRM3-E   P2-100FRM3-E   P2-100FRM3-E   P2-280TMFR-E   P2-280TMF-E   P2-380TMF-E   P2-				PZ-50RFM3-E				•													
Filter			(mo mer)	PZ-65RFM3-E					•												
Filter   P.2.950TMFR.E   P.2.950TMFR.E   P.2.950TMFR.E   P.2.950RFM.E   P.2.950RF				PZ-80RFM3-E						•		•									
No.				PZ-100RFM3-E							•		•								
Filter    P2-SPREME (PM10 80%   P2-SSORFM-E (PM10 80%   P2-SSORFM-E (PM10 75% filter)   P2-SSORFM-E (PM10 75% filter)   P2-SORFM-E (PM10 75% filter)   P2-S		filter		PZ-250TMFR-E											•	•					
PZ-S80RFM-E   PZ-S80RFM-E   PZ-S80RFM-E   PZ-S80RFM-E   PZ-S00RFM-E   PZ-S0RFM-E															_						
Filter   PZ-*RFM-E   PZ-50RFM-E   PZ-50RFM-E   PZ-50RFM-E   PZ-10RFM-E   PZ-10RFM-E   PZ-10RFM-E   PZ-10RFM-E   PZ-10RFM-E   PZ-25RFP3-E   PZ-			(ePM10 80%														_				
PZ-"RFM-E (ePM10 75% filler)   PZ-100RFM-E   PZ-100RFM-E   PZ-100RFM-E   PZ-15RFP3-E   PZ-25RFP3-E   PZ-25RFP3-E   PZ-50RFP3-E   PZ-50RFP3-E   PZ-60RFP3-E   PZ-100RFP3-E   PZ-50RFP3-E   PZ-50RF93-E	Filtor																	•			
CPM10 75% filter	Filler																		•		
PZ-18RF93-E   PZ-28RF93-E   PZ-38RF93-E   PZ-38RF93-E   PZ-508RF93-E   PZ-508R5-E   PZ																				_	
PZ-*RF93-E (ePM1 75% filter)  Advanced high-efficiency filter  PZ-250TPF-E (ePM1 75% filter)  PZ-350TPF-E (ePM1 75% filter)			(or into 70 % linter)																		
PZ-*RFP3-E (ePM1   75% filter)   PZ-50RFP3-E   PZ-50RFP3-E   PZ-50RFP3-E   PZ-50RFP3-E   PZ-50RFP3-E   PZ-100RFP3-E   PZ-10RFP3-E   PZ-10RFP3-E   PZ-50RFP3-E   PZ-50RF93-E   PZ-50RF9					•																₩
Advanced high-efficiency filter  P2-*RFH3-E' (F8 filter)  P2-*RFH3-E' (F8 filter)  P2-*SORFP3-E						-															
Advanced high-efficiency filter  PZ-**RFH3-E   PZ-\$68FP3-E   PZ-\$100FP3-E   PZ-\$1							•														-
Advanced high-efficiency filter  PZ-*RFH3-E1 (F8 filter)  PZ-250TPF-E (ePM1 75% filter)  PZ-250TPF-E (ePM1 75% filter)  PZ-250TPF-E (ePM1 75% filter)  PZ-250TPF-E (ePM1 75% filter)  PZ-350TPF-E (PM1 75% filter)								-													
Advanced high-efficiency filter  PZ-'*RFH3-E' (F8 filter)  PZ-250TF-E (ePM1 75% filter)  PZ-250TF-E (ePM1 75% filter)  PZ-250TFR-E (ePM1 75% filter)  PZ-250TFR-E (ePM1 75% filter)  PZ-250TFR-E (ePM1 75% filter)  PZ-350TFR-E (ePM1 75% filter)  PZ-35			7070 IIICI)						•												-
Advanced high-efficiency filter  PZ-**RFH3-E										_											
Advanced high-efficiency filter  PZ-**RFH3-E* (F8 filter)  PZ-50RFH3-E PZ-50RFH3-E PZ-50RFH3-E PZ-100RFH3-E PZ-250TPF-E (ePM1 75% filter)  PZ-50RFH3-E PZ-250TPF-E (ePM1 75% filter)  PZ-50RFH3-E PZ-300RFH3-E PZ											_		•								-
Advanced high-efficiency filter  PZ-**RFH3-E* (F8 filter)  PZ-50TFF-E (e/PM1 75% filter)  PZ-50TFF-E (e/PM1 75% filter)  PZ-50TFF-E (e/PM1 65% filter)  PZ-30TFF-E (e/PM1 75% filter)  PZ-30TFF-E (e/PM1 75% filter)  PZ-30TFF-E (e/PM1 75% filter)  PZ-30TFF-E (e/PM1 75% filter)  PZ-30TFF-E (e/PM1 65% filter)  PZ-30TFF-E (e/PM1 75% filter)  PZ-					•																
Advanced high-efficiency filter  PZ-*RFH3-E1 (F8 filter)  PZ-65RFH3-E PZ-65RFH3-E PZ-80RFH3-E PZ-100RFH3-E PZ-100RFH3-E PZ-100RFH3-E PZ-100RFH3-E PZ-250TPF-E (ePM1 75% filter) PZ-250TPF-E (ePM1 75% filter) PZ-250THFR-E1 (F8 filter)  PZ-\$100RFH2-E1 (ePM1 65% filter) PZ-\$100RFH2-E PZ-\$100RFH2-FT-PZ-\$100RFH2-FT-PZ-\$100RFH2-FT-PZ-\$100RFH2-FT-PZ-\$100RFH2-						-															
Nigh-efficiency filter   F2-50RFH3-E   PZ-65RFH3-E   PZ-65RFH3-E   PZ-80RFH3-E   PZ-80RFH3-E   PZ-80RFH3-E   PZ-100RFH3-E   PZ-100RFH3-E   PZ-250THF-E   PZ-250RFH-E   PZ-250RFH-E   PZ-250RFH-E   PZ-250RFH-E   PZ-250RFP-E   PZ-100RFH-E   PZ-100RFH-E   PZ-100RFH-E   PZ-100RFP-E   PZ-100RFP-E   PZ-100RFP-E   PZ-100RFP-E   PZ-100RFP-E   PZ-100RFP-E   PZ-10RFP-E   PZ-10R		Advanced	PZ-**RFH3-E*1				-														
PZ-80RFH3-E   PZ-100RFH3-E   PZ-100RFH3-E   PZ-250TPF-E		high-efficiency						•													
PZ-100RFH3-E   PZ-250TPF-E		filter							-												
PZ-250TPF-E (ePM1 75% filter)   PZ-250TPF-E   PZ-250TPF-										•		•									
PZ-250THFR-E'   PZ-250THFR-E'   PZ-250THFR-E   PZ			P7-250TDE E								_		-								
PZ-250THFR-E   PZ-550RFH-E   PZ-550RFH-E   PZ-880RFH-E   PZ-880RFH-E   PZ-8100RFH-E   PZ-5100RFH-E   PZ-5100RFH-E   PZ-100RFP2-E   PZ-100RF			(ePM1 75% filter)	PZ-250TPF-E										•	•	•					
PZ-S**RFH-E (ePM1   65% filter)   PZ-S50RFH-E   PZ-S0RFH-E   PZ-S0RFH-E   PZ-S100RFH-E   PZ-S100RFH-E   PZ-S100RFP2-E   PZ-100RFP2-E   PZ-1				PZ-250THFR-E										•	•	•					
PZ-S80RFH-E   PZ-S100RFH-E   PZ-S100RFH-E   PZ-S100RFH-E   PZ-S100RFH-E   PZ-S100RFH-E   PZ-S0RFP2-E   PZ-S0RFP2-E   PZ-100RFP2-E   PZ-10RFP2-E   PZ-10RFP																					
PZ-\$100RFH-E   PZ-\$100RFH-E   PZ-\$100RFH-E   PZ-\$100RFH-E   PZ-\$100RFP2-E																					
PZ-3 totern=E   PZ-50RFP2-E   PZ-50RFP2-E   PZ-100RFP2-E   PZ-10																					
CO2 sensor																					
PZ-70CSD-E																					
PZ-70CSW-E			<u> </u>	12 100141121																	
Vertical installation plates         PZ-1VS-E         Image: Control of the plate installation plates         PZ-2VS-E         Image: Control of the plate installation plates         PZ-2VS-E         Image: Control of the plates         Image: Control of the		CO <sub>2</sub> sensor							_												
plates         PZ-2VS-E         Image: Control of the point of the p	Mont	inal inotallation				_															
PZ-4GS-E	Verti				-	-															
Duct silencer         PZ-100SS-E           PZ-150SS-E         • • • • • • • • • • • • • • • • • • •	Signe				_		_										_	_			
Duct silencer         PZ-150SS-E         • • • • • • • • • • • • • • • • • • •	Signa	- output terminai		-CO-L		-	_		_	_		_	_	_	_				_		
Duct silencer PZ-200SS-E					•		_														
	D	uct silencer																			
ΓΔ-20U00-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	*4. 5	and for the C		h DITE (D	TI	2011	lall-"				_			'							

<sup>\*1:</sup> 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 part	ts			VL-250CZPVU-R/L-E	VL-350CZPVU-R/L-E	VL-500CZPVU-R/L-E
		N	<b>M</b> odel	VL-250CZ	VL-350CZ	VL-500CZ
			P-250F-E	•		
	Replacement filter (Coarse 55% filter)	P-**F-E	P-350F-E		•	
			P-500F-E			•
			P-250SF-E	•		
	Standard filter (Coarse 90% filter)	P-**SF-E	P-350SF-E		•	
			P-500SF-E			•
	Medium-efficiency filter (ePM10 80% filter)	P-**MF-E	P-250MF-E	•		
			P-350MF-E		•	
			P-500MF-E			•
Filter	PM2.5 filter (ePM2.5 50% filter)		P-250PF-E	•		
		P-**PF-E	P-350PF-E		•	
			P-500PF-E			•
			P-250PFH-E	•		
	PM1 filter (ePM1 55% filter)	P-**PFH-E	P-350PFH-E		•	
			P-500PFH-E			•
			P-250NF-E	•		
	NOx filter	P-**NF-E	P-350NF-E		•	
			P-500NF-E			•
			P-250SB-E	•		
	Silencer box	P-**SB-E	P-350SB-E		•	
			P-500SB-E			•
RC c	over (remote controller cover)	P-	RCC-E	•	•	•

<sup>\*</sup>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 <sub>2</sub> -E	VL-50ES <sub>2</sub> -E	VL-50RS <sub>2</sub> -E
Filter	Replacement filter	P-50F2-E (G3 Filter)	•	•	•
Filler	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.



### **MARNING**

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.

### MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BUILDING, 2-7-3 MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN https://www.mitsubishielectric.com/

> Full Product Line Catalogue E-2505224 (18977)



