Warm, even heat in winter and cool comfort in summer is only a phone call or click away.

Simply contact your nearest Mitsubishi Electric Supplier today and you can find out all there is to know about how to enhance your living environment.

To locate your nearest Mitsubishi Electric Stockist go to our website

www.MitsubishiElectric.com.au

All Mitsubishi Electric Air Conditioning Systems are MEPS (Minimum Efficiency Performance Standard) Compliant, so you can be sure that they will give you the performance and efficiency that they were designed to deliver.

⚠ NOTICE

- Products in this brochure contain and operate with R410A refrigerant and synthetic oils. Please refer to the installation instructions before installation or servicing of these products.
- Under Australian law, only persons suitably licensed are permitted to install, service or repair air conditioning units.
- The buyer must ensure that the person and/or company who is to install, service or repair the air conditioner has the necessary licenses, qualifications and experience to perform the work.
- 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.
- When installing, relocating or servicing the air conditioners, use only the specified refrigerant (R410A) to charge the refrigerant lines. Do not mix the specified refrigerant with any other refrigerant and do not allow air to remain in the lines. If air is mixed with the refrigerant, it can be the cause of abnormally high pressure in the refrigerant lines and may result in an explosion and other hazards. The use of a refrigerant other than the one specified for the system will cause mechanical failure, system malfunction or unit breakdown. In some cases, it may also seriously reduce product safety.

Mitsubishi Electric Shizuoka Works acquired ISO9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality warranties for the production of air conditioning equipment. The plant also acquired environmental management system standard ISO 14001 certification.

MITSUBISHI ELECTRIC CORPORATION
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MITSUBISHI ELECTRIC

AIR CONDITIONING SYSTEMS

Mitsubishi Electric Quality

Mr.SLIM

R410A

COMFORT TAKES ON NEW MEANING WITH THE POWER OF TECHNOLOGY

Our technologically advanced Mr. Slim Power Inverter systems improve comfort, operate with significantly less noise, ... and provide increased energy savings.

Mr.SLIM

NEW REFRIGERANT

R410A Our air conditioners use R410A, HFC refrigerant.

Advanced Power Inverter

Mitsubishi Electric's Power Inverter systems drastically reduce power consumption

To better meet the needs of shops and offices, our outdoor units are offered in three-phase power supply models in addition to the existing line-up of single-phase models. Select the model to best match your needs from our expanded model range.

PUHZ-RP71

PUHZ-RP100/125/140/170/200

PUHZ-RP250

Outdoor Line-up (PUHZ-RP series)							
	71	100	125	140	170	200	250
Single-phase	●	●	●	●	●		
Three-phase		●	●	●	●	●	●

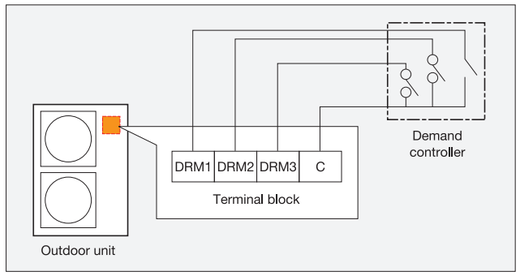
Demand Function <PUHZ-RP71–200>

Based on the connection of a demand response enabling device (DRED) to the outdoor unit, Demand Response Mode is activated in response to signals sent from the electric authority at times when it is necessary to reduce peak demand.

As standard, all the PUHZ-RP (PUHZ-RP250 is excluded) units are equipped with Demand Control PCB to receive the demand signals.

Air Conditioner Demand Response Mode

Demand Response mode (DRM)	Description of operation in this mode
DRM1	Compressor Off
DRM2	The air conditioner continues to cool or heat during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 50% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.
DRM3	The air conditioner continues to cool or heat during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 75% of the total electrical energy that would be consumed if operating at the rated capacity in a half hour period.



Longer Maximum Piping Length

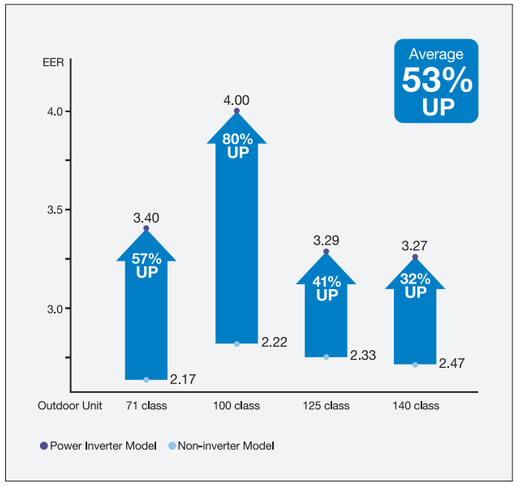
As a result of increasing the volume of refrigerant, piping length has been increased to a maximum of 75m, expanding the range of layout possibilities for unit installation.

Max. piping length		
	Max. height difference	Max. piping length
PUHZ-RP71	30m	50m
PUHZ-RP 100/125/140/170/200/250	30m	75m

High Energy Efficiency

Comparison of EER (cooling mode)

Comparison of EER between non-inverter and Power Inverter (4-way ceiling cassette) models.



*EER are measured at rated condition.

High Power

More Power for Faster Cooling/Heating

Powerful Cooling/Heating Performance

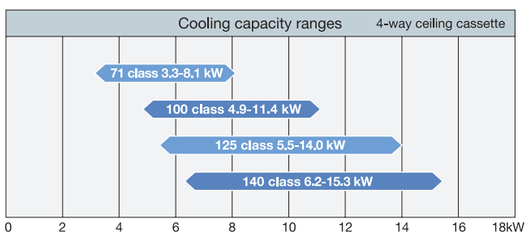
The maximum operating cooling/heating capacity of the Mr. Slim Power Inverter units have been improved (compared to conventional non-inverter models) when operating in either low or high outdoor temperatures.

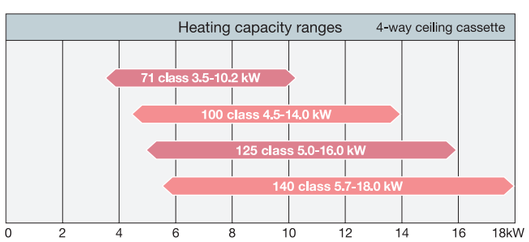
	Cooling capacity (kW)		4-way ceiling cassette
	R22 Non-inverter	R410A Power inverter max. (PUHZ-RP)	
71 class	7.7	8.1	105%
100 class	9.7	11.4	118%
125 class	12.4	14.0	113%
140 class	14.0	15.3	109%

	Heating capacity (kW)		4-way ceiling cassette
	R22 Non-inverter	R410A Power inverter max. (PUHZ-RP)	
71 class	8.4	10.2	121%
100 class	10.4	14.0	135%
125 class	14.0	16.0	114%
140 class	16.1	18.0	112%

Wider Performance Range

Operation is now possible at lower speeds, thus cutting energy losses produced by the repeated On/Off operation of non-inverter models. Comfort is improved while power consumption is reduced.





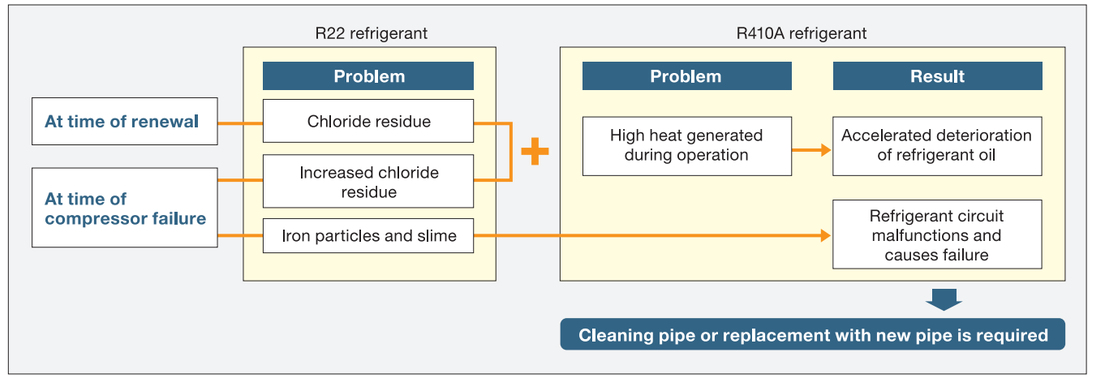
Cleaning-free Pipe Reuse Technology <PUHZ-RP71–200>

Ability to use existing piping reduces pipe waste and replacement time

No Need to Clean at the Time of System Renewal

Chloride residue builds up in existing pipes and becomes a source of trouble. In addition, the iron particles and slime produced as a result of compressor failure lead to problems. To counter this, various original Mitsubishi Electric technologies have been combined to enable the introduction of “cleaning-free pipe reuse.”

Why can’t existing piping be used?



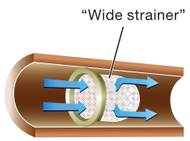
Mitsubishi Electric’s Original Replacement Technologies

Countermeasure for Problem 1

Technology 1

Original High-quality Filtration

Our original high-quality filtration device called the “Wide strainer” is equipped inside the refrigerant inlet and outlet pipe. The “Wide strainer” traps iron particles and realises cleaning-free pipe reuse. In addition, improvements to the metal used in the bearings of our new scroll compressors realise more robust units.



Countermeasure for Problem 2

Technology 2

Friction Reduction (moving parts in compressor)

Friction inside the compressor is reduced by using an original Mitsubishi Electric technology called the “Heat Caulking Fixing Method” or coating the edge of the blade in the scroll compressor, thereby suppressing the increase in temperature that causes refrigerant oil deterioration.

Existing piping can be used without cleaning

⚠ Cautions when using existing piping

- When removing an old air conditioning unit, please make sure to perform the pump-down process and recover the refrigerant and refrigerant oil.
- Check to ensure that the piping diameter and thickness match Mitsubishi Electric specifications.
- Check to ensure that the flare is compatible with R410A.

Advanced Energy-saving Technologies

Highly efficient fan and grille for outdoor unit

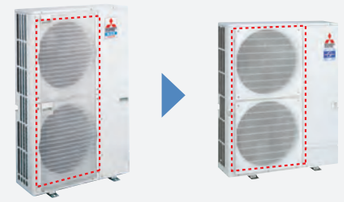
The shapes of the fan and grille of the outdoor unit have been redesigned, realising an increase in blowing capacity and more efficient heat exchange while maintaining the same operating noise level.

Outdoor unit fan opening increased <PUHZ–RP100–200>

The diameter of the opening for the fan in the outdoor unit has been increased from 490 to 550mm. Blowing capacity has been increased while maintaining the same fan rotation speed.

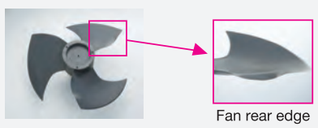
Grille shape changed <PUHZ–RP71–200>

The shape of the air outlet grille has been changed to reduce pressure loss. This has helped to improve heat exchange performance.



Inflexed fan <PUHZ–RP100–200>

Adoption of a fan with improved ventilation characteristics and a newly designed rear edge that suppresses wind turbulence raises fan operation efficiency.



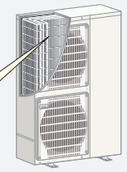
Highly efficient heat exchanger

A high density and increase in surface area have improved the heat-exchange efficiency of the heat exchanger.

High-density heat exchanger <PUHZ–RP100–200>

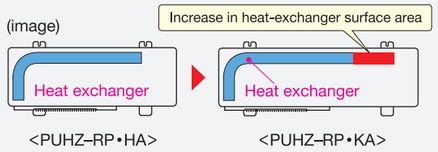
The pipe diameter has been changed from 9.52 to 7.94mm, resulting in a high-density heat exchanger.

2 lines, 52 columns
↓
2 lines, 64 columns (RP100–200)



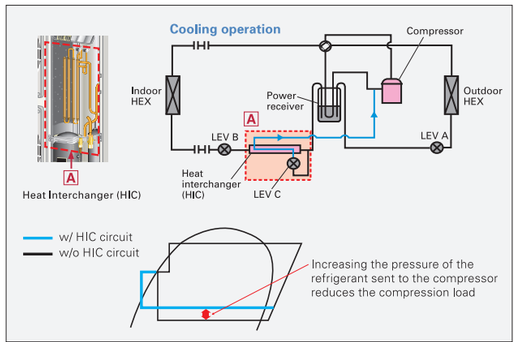
Heat-exchange surface area increased <PUHZ–RP100–200>

Heat exchanger size extended horizontally, increasing the surface area.



Heat Interchanger (HIC) Added <PUHZ-RP140>

A HIC circuit has been added to improve energy efficiency during cooling operation. Liquid refrigerant is rerouted, transformed into a gas state and injected back into the system to increase overall pressure of the refrigerant being sent to the compressor, thereby reducing the load on the compressor and raising efficiency.

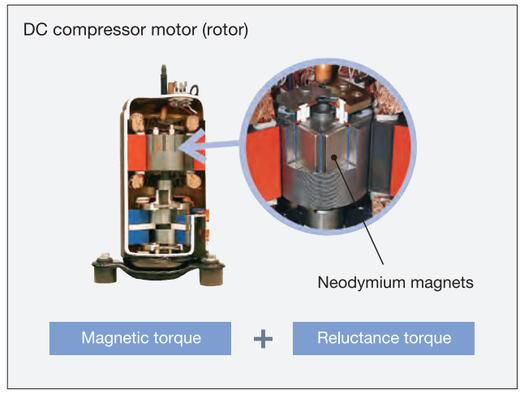


Advanced Technology for High Efficiency

Numerous Leading-edge Technologies Assure High Efficiency

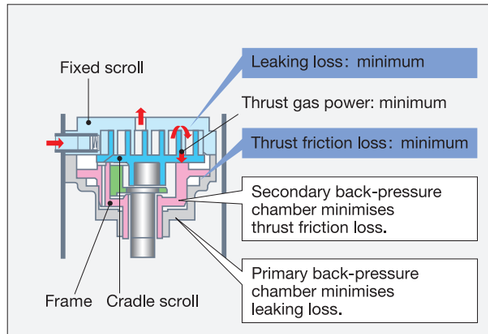
Reluctance DC Rotary Compressor <PUHZ-RP71>

The reluctance DC motor has a rotor equipped with powerful neodymium magnets. The magnetic torque produced by the neodymium magnets and reluctance torque results in more efficient operation.



Highly Efficient DC Scroll Compressor <PUHZ-RP71–200>

Higher efficiency has been achieved by adding a frame compliance mechanism to the DC scroll compressor. The mechanism allows movement in the axial direction of the frame supporting the cradle scroll, thereby greatly reducing the leakage and friction loss, and ensuring extremely high efficiency at all speeds.



DC Fan Motor <PUHZ-RP71–200>

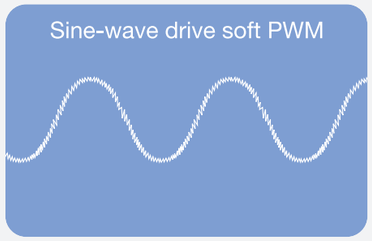
A highly efficient DC motor has been installed to drive the fan of outdoor units, realising up to 60% higher efficiency when compared to an equivalent AC motor.

Vector-Wave Eco Inverter

This inverter monitors the varying compressor motor frequency and creates the most efficient waveform for the motor speed. As a result, operating efficiency in all speed ranges is improved, less power is used and annual electricity costs are reduced.

Smooth AC wave pattern

The inverter has been made more compact by inserting the circuitry inside a synthetic resin molding.
To ensure quiet operation, soft PWM control is used to prevent the metallic whine associated with conventional inverters.



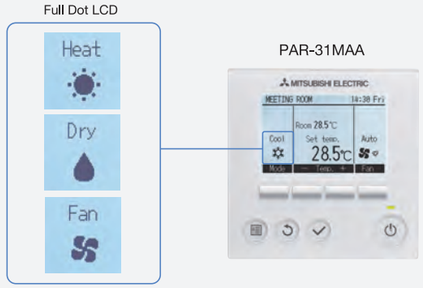
Power Receiver and Twin LEV Control <PUHZ-RP71–200>

Mitsubishi Electric has developed a power receiver and twin linear expansion valves (LEVs) that optimise the performance of the compressor. By ensuring optimum control in response to the operating waveform and outdoor temperature, this technology is tailored to the characteristics of the new refrigerant to enhance operating efficiency.

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]



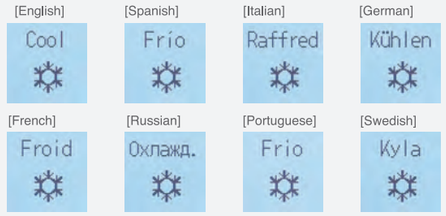
Easy To Read & Easy To Use

Multi-language

Multi-language Display

Control panel operation in eight different languages

Choose the desired language, among the following languages.



Energy-efficient Control

Operation Control Functions

Energy-saving Schedule

Precise control of power consumption <PUHZ–RP71–200>

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

■Setting pattern example

Start time		Finish time	Adjusted capacity level
8:15	→	12:00	80%
12:00	→	13:00	50%
13:00	→	17:00	90%
17:00	→	21:00	50%

Auto-return

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

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

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

Night Setback

Keep desired room temperatures automatically

This function monitors the room temperature and automatically activates the heating mode when the temperature drops below the preset minimal temperature setting. It has the same function for cooling, automatically activating the cooling mode when the temperature rises above the preset maximum temperature setting.

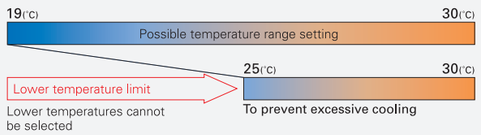
Temperature Range Restriction

Temperature Range Restriction prevents overheating/overcooling

Using a temperature that is 1°C lower/higher for heating/cooling results in a 10% reduction in power consumption.* Temperature Range Restriction limits the maximum and minimum temperature settings, contributing to the prevention of overheating/overcooling.

*In-house calculations

Cooling/Dry (Setting example of minimum temp. in 25°C)



Recommended for: Office, Restaurant

Auto-off Timer

Turns heating/cooling off automatically after preset time elapses

When using Auto-off Timer, even if one forgets to turn off the unit, operation stops automatically after the preset time elapses, thereby preventing wasteful operation. Auto-off Timer can be set in 10-minute units, in a range between 30 minutes and 4 hours. Eliminates all anxiety about forgetting to turn off the unit.

Recommended for: Meeting room, Changing room

Operation Lock

Fixed temperature setting promotes energy savings

In addition to operation start/stop, the operation mode, temperature setting and airflow direction can be locked. Unwanted adjustment of temperature settings is prevented and an appropriate temperature is constantly maintained, leading to energy savings. This feature is also useful in preventing erroneous operation or tampering.

Recommended for: Office, School, Public hall, Hospital, Computer server facility

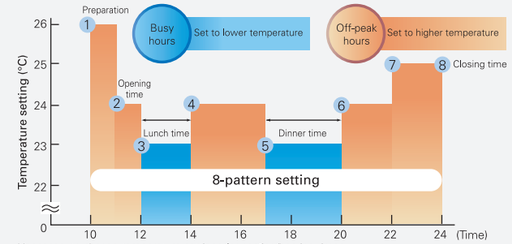
Weekly Timer

Set up to 8 patterns per day including temperature control

The Weekly Timer enables the setting of operation start and finish times and adjusting the temperature as standard features. Up to 8 patterns per day can be set, providing operation that matches the varying conditions of each period, such as the number of customers in the store.

*Weekly Timer cannot be used when On/Off Timer is in use.

Setting Example (restaurant in summer time)



Necessary to change temperature settings for cooling/heating times.
*Joint research conducted with Japan Facility Solutions, Inc.

Installation/Maintenance Support Functions

Smooth Maintenance

Outdoor unit data accessed immediately, enabling fast maintenance <PUHZ–RP71–200>

Using the Stable Operation Control (fixed frequency) of the Smooth Maintenance function, the operating status of the inverter can be checked easily via the screen on the remote controller.

■Smooth Maintenance Function Operating Procedure

Display information (11 items)

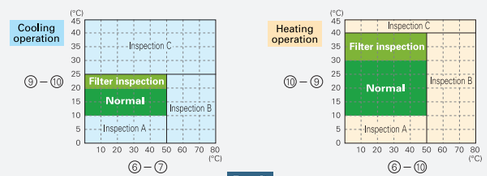
Compressor		⑥	OU TH4 temp. (°C)
①	COMP. current (A)	⑦	OU TH6 temp. (°C)
②	COMP. run time (Hr)	⑧	OU TH7 temp. (°C)
③	COMP. ON/OFF (times)	Indoor Unit	
④	COMP. frequency (Hz)	⑨	IU air temp. (°C)
Outdoor Unit		⑩	IU HEX temp. (°C)
⑤	Sub cool (°C)	⑪	IU filter operating time* (Hr)

*IU filter operating time is the time elapsed since filter was reset.

Inspection Guidelines

The computed temperature difference is plotted as in the graph below and operating status is determined.

	Operation	Item
Temp. difference	Cooling	(⑥ OU TH4 temp.) – (⑦ OU TH6 temp.)
		(⑨ IU air temp.) – (⑩ IU HEX temp.)
	Heating	(⑥ OU TH4 temp.) – (⑩ IU HEX temp.)
		(⑩ IU HEX temp.) – (⑨ IU air temp.)



Result

Normal	Normal operating status.
Filter inspection	Filter may be blocked.*1
Inspection A	Capacity is reduced. Detailed inspection is necessary.
Inspection B	Refrigerant level is low.
Inspection C	Filter or indoor unit heat exchanger is blocked.

※1: Due to indoor and outdoor temperatures, "Filter inspection" may be displayed even if the filter is not blocked.
- The above graphs are based on trial data. Results may vary depending on installation/temperature conditions.
- Stable operation may not be possible under the following temperature conditions:
  a) In cooling mode when the outdoor induction temperature is over 40°C or the indoor induction temperature is below 23°C.
  b) In heating mode when the outdoor induction temperature is over 20°C or when the indoor induction temperature is over 25°C.
- If the above temperature conditions do not apply and stable operation is not achieved after 30 minutes has passed, please inspect the units.
- The operating status may change due to frost on the outdoor heat exchanger.

Manual Vane Angle Setting (4-way ceiling cassette)

Direction of vertical airflow for each vane can be set

Setting the vertical airflow direction for each individual vane can be performed simply via illustrated display. Seasonal settings such as switching between cooling and heating are easily changed as well.

Auto-descending Panel Operation (4-way ceiling cassette)

Easily raise/lower panels using the remote controller

Auto-descending panel operation is available as an option. Panels can be lowered/raised using a button on the wired remote controller. Filter cleaning can be performed easily.

Refrigerant Leakage Check

Easily check refrigerant leakage <PUHZ–RP71–200>

The Mr. Slim Power Inverter units come equipped with a useful "Refrigerant Leakage Check" function. Using a wired remote controller, it is easy to check if refrigerant has been lost over a long period of use. This reduces service time and gives an added sense of safety.

Silent Mode

Three outdoor noise level setting <PUHZ–RP71–200>

The outdoor noise level can be reduced on demand according to the surrounding environment. Select from three setting mode: standard mode (rated), silent mode and ultra-silent mode.

Initial Password Setting

Password for initial settings

A password is required (default setting is "0000") for initial settings such as time and display language.

Reassuring Troubleshooting Navigation Function

Contact Details Displayed When Abnormality Occurs

Easily contact a service company when there is a problem.

The telephone number of a service company and other information can be input and stored in advance. When a problem occurs, the contact details are displayed automatically, and a call for help can be made without delay.

Full Dot Liquid-crystal Display Adopted

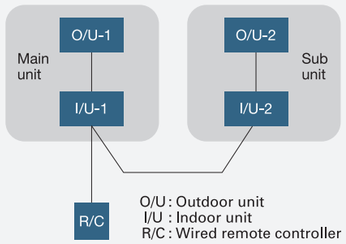
Rotation, Back-up and 2nd Stage Cut-in Functions (PAR-31MAA) <PUHZ-RP71–200>

(1) Rotation and Back-up Functions

Function Outline

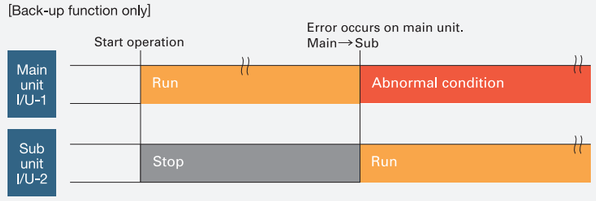
- Main and Sub units take turns operating according to a rotation interval setting.
- If one unit malfunctions, the other unit automatically begins operation (Back-up function)

System Image

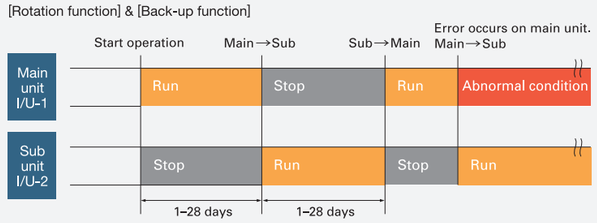


Operation Pattern

[Back-up function only]



[Rotation function] & [Back-up function]



(Ex: When the request code is "313", each unit operates alternately in daily cycle.)

(2) 2nd Stage Cut-in Function

Function Outline

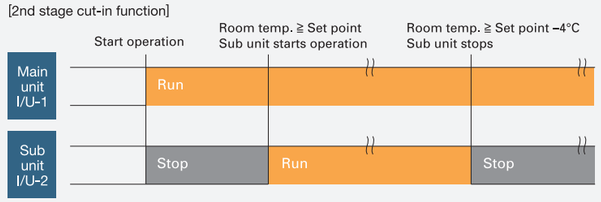
- Number of units operating is based on room temperature and predetermined settings.
- When room temperature rises above the desired setting, the standby unit starts (2-unit operation).
- When the room temperature falls 4°C below the predetermined setting, the standby unit stops (1-unit operation).

System Constraint

- This function is only available for rotation operation and when the back-up function is in cooling mode.

Operation Pattern (When cooling)

[2nd stage cut-in function]



Easy Maintenance Function <PUHZ-RP71–200>

- Nearly maintenance-free operation
- Monitor operation data of the indoor and outdoor units via the remote controller. Remote controller also lets you set the operating frequency, allowing easier inspection.

Easy Maintenance Information

Compressor		Outdoor Unit		Indoor Unit	
①	Accumulated operating time (×10hr)	④	Heat exchanger temperature (°C)	⑦	Intake-air temperature (°C)
②	Number of ON/OFF times (×100 times)	⑤	Discharge temperature (°C)	⑧	Heat exchanger temperature (°C)
③	Operating current (A)	⑥	Outdoor-air temperature (°C)	⑨	Filter operating time* (hr)

*The filter operating time is the time elapsed since the filter button is reset.

Refrigerant Leakage Check <PUHZ-RP71–200>

The Mr. Slim Power Inverter units come equipped with a useful "Refrigerant Leakage Check" function. Using a wired remote controller, it is easy to check if refrigerant has been lost over a long period of use. This reduces service time and gives an added sense of safety.

New Simple MA Remote Controller PAC-YT52CRA

PAC-YT52CRA

Backlit LCD

Features a liquid-crystal display (LCD) with backlight for operation in dark conditions.

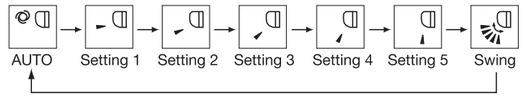
Flat Back

The slim and flat-back shape makes installation easier without requiring a hole in the wall. Thickness is 14.5mm or less.

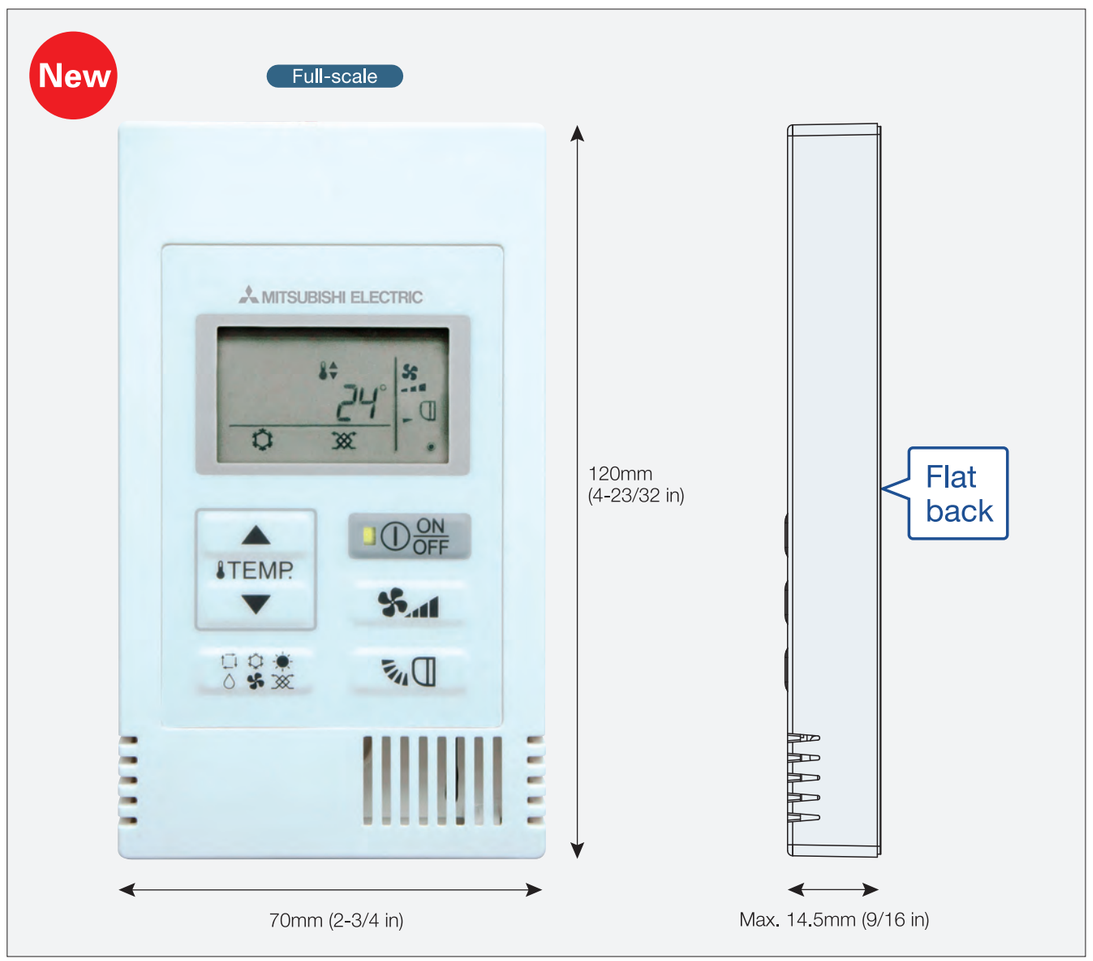
Vane Angle Setting

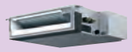
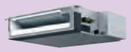
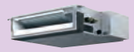
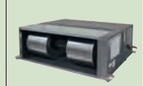
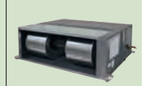
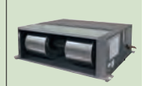
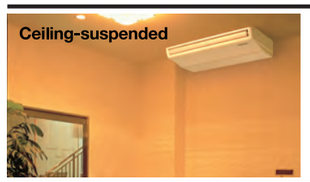
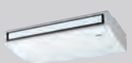
The vane button has been added to allow users to change the airflow direction (ceiling-cassette and wall-mounted units).

Pressing the button will switch the vane direction.



* The settable vane directions vary depending on the indoor unit model to be connected.
* If the unit has no vane function, the vane direction cannot be set. In this case, the vane icon flashes when the button is pressed.



Product Line-up	2.5kW	3.5kW	5.0kW	6.0kW	7.1kW	10.0kW	12.5kW	14.0kW	17.0kW	20.0kW	25.0kW	Remote controller	See page
 4-way ceiling cassette **SLZ** Compact cassette	 SLZ-KA25VAQ(L)		 SLZ-KA50VAQ(L)									 optional for SLZ-VAQ  optional for SLZ-VAQ standard for SLZ-VAL	19
PLA Wide Power cassette				 PLA-RP60BA	 PLA-RP71BA	 PLA-RP100BA	 PLA-RP125BA	 PLA-RP140BA				 optional  optional optional	13 / 14
 Compact bulkhead **SEZ**	 SEZ-KD25VAQ(L)	 SEZ-KD35VAQ(L)	 SEZ-KD50VAQ(L)	 SEZ-KD60VAQ(L)	✻Combination only with SUZ-KA71  SEZ-KD71VAQ(L)							 optional for SEZ-VAQ  optional for SEZ-VAQ standard for SEZ-VAL	19
 Ceiling-concealed **PEAD**					 PEAD-RP71JAA	 PEAD-RP100JAA	 PEAD-RP125JAA	 PEAD-RP140JAA				 optional for PEAD  optional for PEAD optional for PEAD	15
PEA							 NEW PEA-RP125GAA	 NEW PEA-RP140GAA	 PEA-RP170WJA	 PEA-RP200WJA	 PEA-RP250WHA	 optional for PEA  optional for PEA	16
 Ceiling-suspended **PCA**			 PCA-RP50KAQ	PCA-RP60KAQ	PCA-RP71KAQ	PCA-RP100KAQ	PCA-RP125KAQ	PCA-RP140KAQ				optional optional optional	17
Wall-mounted **PKA**					✻Combination only with PUHZ-RP71 PKA-RP71KAL	PKA-RP100KAL						optional optional standard	18
Outdoor unit	SUZ-KA25VA3	SUZ-KA35VA2	SUZ-KA50VA3	SUZ-KA60VA3	SUZ-KA71VA3 PUHZ-RP71VHA5	PUHZ-RP100V/YKA2	PUHZ-RP125V/YKA2	PUHZ-RP140V/YKA2	PUHZ-RP170V/YKA2	PUHZ-RP200YKA2	PUHZ-RP250YKM		

*SEZ/SLZ indoor units should be connected to an SUZ outdoor unit.
*PKA-RP71: only for PUHZ-RP outdoor connection.
*PEA-RP: No wireless remote controller as optional parts.

PLA SERIES

(i-see Sensor: optional)

PLA-RP60/71
100/125/140BA

optional

Advancements in PLA series improve style and performance for ensured indoor comfort

Wide Airflow

Wide-angle outlets distribute airflow to all corners of the room, ensuring the room is sufficiently cooled/heated. Horizontal airflow and a fan speed reduced by 20% compared to conventional models also contribute to increased comfort for occupants.

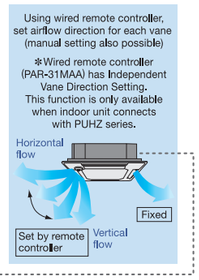
Less Cold Draft

The horizontal airflow function prevents cold drafts from striking the body directly, thereby keeping the body from becoming over-chilled.

Horizontal airflow prevents drafty feeling

Independent Vane Direction Setting

Use the wired remote controller to set the airflow pattern of each vane independently. Easily adjust airflow to the interior layout and seasonal conditions, and ensure an even temperature distribution all the time.

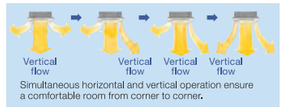


Settings can be changed anytime using a wired remote controller.

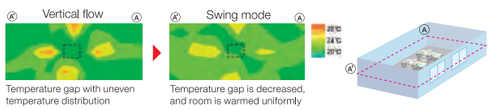
Wave Airflow Mode for Heating

The airflow direction at each outlet changes intermittently, providing a consistent temperature throughout the room.

● "Wave Airflow" operation image



● Wave control effect thermograph



Temperature gap with uneven temperature distribution

Temperature gap is decreased, and room is warmed uniformly

Auto Fan Speed Mode

The fan speed is adjusted automatically, thereby maintaining a comfortable room environment at all times. At the start of operation, a high fan speed realises quick heating/cooling of the room. Once the desired temperature is reached, the fan speed is reduced for stable heating/cooling and greater comfort.

Fan speed setting by remote controller (four levels)

Lo → Mi2 → Mi1 → Hi → Auto

*Special setting is required for wireless remote controller.

Quiet Operation

An improved airflow path and powerful high-capacity flow fan contribute to the realisation of quieter operation.

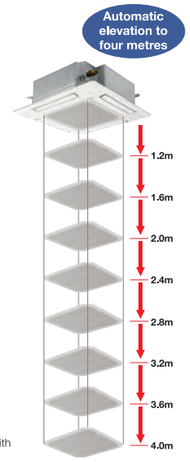
Power flow fan

"Pure White" Colour

Stylish, pure white-coloured panels and wired remote controller express a clean, streamlined image that is a suitable match for any interior.

Other Features

- Stylish indoor-unit vane covers (when unit is turned off)
- Maximum upward draining of 850mm
- Wireless remote controller available
- Duct flange for Fresh-air Intake
- Branch duct



Automatic Grille Lowering Function (Option)

Easy to use/Simple maintenance

An automatic grille lowering function capable of stopping at eight different heights is available to simplify filter maintenance.

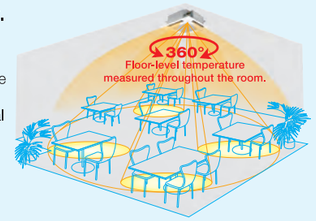
Elevating (up-down) controller

Packaged elevating (up-down) controller in the grille (PLP-6BAJ) can be used when outdoor unit is both PUHZ series and SUZ series.

Wired remote controller (PAR-31MAA) has automatic grille lowering function. This function is only available when indoor unit connects with PUHZ series.

4-way cassettes can be equipped with the i-see Sensor, a radiation-based sensor that monitors floor-level temperatures throughout the room to ensure room comfort.

i-see Sensor works to ensure even temperature distribution and save energy (requires optional corner panel)

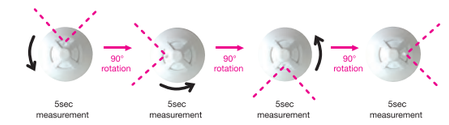


i-see Sensor improves energy efficiency and enhances room comfort

The i-see Sensor is an innovative Mitsubishi Electric technology that uses a radiation-based sensor to monitor temperature throughout the entire room. When connected to the air conditioner control panel, i-see Sensor works to maximise room comfort through 360° sensing that covers the whole floor space.

■ i-see Sensor Operation

The i-see Sensor rotates 90° and takes 5-second measurements to accurately determine floor-level temperatures on all sides of the room.



- The i-see Sensor calculates the temperature by measuring the infrared rays emanating from the walls and floors, and measuring the floor-level temperature.
- The sensor rotates 360-degrees once every two minutes when there is significant temperature disparity and once every five minutes when a stable, even temperature has been reached.

"I Feel" Temperature Control

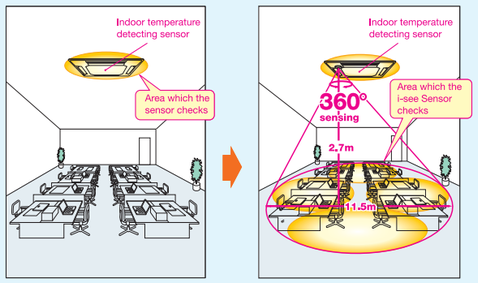
The sensory temperature is calculated by measuring the air-intake temperature and the floor temperature. This technology makes it possible to avoid overcooling or overheating.

Without i-see Sensor

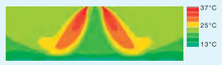
Only intake-air temperature at the ceiling is measured, resulting in uneven temperature distribution.

With i-see Sensor

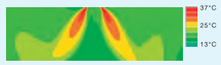
Both floor-level and intake-air temperatures are measured, providing operation that creates a comfortable room environment from ceiling to floor.



Heating
Set temperature: 23°C
without i-see Sensor



Heating
Set temperature: 20°C
with i-see Sensor + Auto Fan Speed



Specifications: 4-way ceiling-cassette (PLA)														
Indoor unit			PLA-RP60BA		PLA-RP71BA		PLA-RP71BA		PLA-RP100BA		PLA-RP125BA		PLA-RP140BA	
Outdoor unit			SUZ-KA60VA3		SUZ-KA71VA3		PUHZ-RP71VHA5		PUHZ-RP100V/YKA2		PUHZ-RP125V/YKA2		PUHZ-RP140V/YKA2	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)		(kW)	6.1 (1.1-6.3)	6.9 (0.9-8.0)	7.1 (0.9-8.1)	8.0 (0.9-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.0 (6.2-15.3)	16.0 (5.7-18.0)
Input		(kW)	1.78	1.97	2.07	2.19	2.09	2.17	2.50	2.95	3.80	3.71	3.97	4.43
Rated EER/COP			3.43	3.50	3.43	3.65	3.40	3.69	4.00	3.80	3.29	3.77	3.27	3.61
Rated AEER/ACOP			3.36	3.44	3.38	3.60	3.22	3.49	3.67/3.63	3.54/3.50	3.10/3.08	3.56/3.54	3.10/3.08	3.44/3.42
AEER/ACOP (part-load %)*											4.13/4.05		3.95/3.89	
Power supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V											
Airflow (Lo-Mi2-Mi1-Hi)		CMM	12-14-16-18		14-16-18-21		14-16-18-21		20-23-26-30		22-25-28-31		24-26-29-32	
		L/S	200-233-267-300		233-267-300-350		233-267-300-350		334-384-434-501		367-417-467-517		400-434-484-534	
Sound pressure level		(dB)	28-29-31-32		28-30-32-34		28-30-32-34		32-34-37-40		34-36-39-41		36-39-42-44	
Dimensions	Height	(mm)	Unit: 258, Panel: 35						Unit: 298, Panel: 35					
	Width	(mm)	Unit: 840, Panel: 950											
	Depth	(mm)	Unit: 840, Panel: 950											
Weight		(kg)	Unit: 23, Panel: 6						Unit: 25, Panel: 6				Unit: 27, Panel: 6	

* MEPS compliant at part load

PEAD SERIES

PEAD-RP71/100/125/140JAA

optional

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

Compact Indoor Units

The height of the PEAD (7.1kW-14.0kW) models has been unified to 250mm. Compared to the previous PEA-RP models, the height has been reduced by as much as 178mm, making installation possible in low ceilings with minimal clearance space.

PEA-RP71-140EAQ　　PEAD-RP71-140JAA

Lighter Weight

Compared to the previous PEA-RP•EAQ (7.1kW-14.0kW) models, unit weight has been reduced by an average of 27kg. This significant weight reduction has led to increased ease of installation.

Wide Selection of Fan Speeds and External Static Pressure

Five-stage external static pressure conversions and three fan speed selections are available. Capable of being set to a maximum of 125Pa, units are applicable to a wide range of building types.

High Energy-Saving Efficiency

Compared to the previous PEA-RP•EAQ (7.1kW-14.0kW) models, PEAD-RP models achieve enhanced energy savings through adopting a highly efficient DC fan motor. This contributes to an impressive reduction in electricity costs.

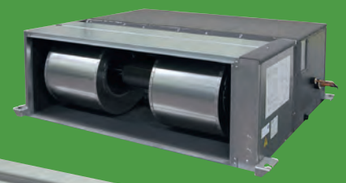
Capacity	Rated EER/COP	PEA-RP	PEAD-RP	
7.1kW	Rated EER	2.86	**3.50**	22% UP
	Rated COP	3.35	**4.00**	19% UP
10.0kW	Rated EER	3.28	**3.61**	10% UP
	Rated COP	3.54	**4.12**	16% UP
12.5kW	Rated EER	2.95	**3.33**	13% UP
	Rated COP	3.64	**4.00**	10% UP
14.0kW	Rated EER	2.90	**3.32**	14% UP
	Rated COP	3.74	**3.96**	6% UP

Specifications: Ceiling-concealed (PEAD)											
Indoor unit		PEAD-RP71JAA		PEAD-RP71JAA		PEAD-RP100JAA		PEAD-RP125JAA		PEAD-RP140JAA	
Outdoor unit		SUZ-KA71VA3		PUHZ-RP71VHA5		PUHZ-RP100V/YKA2		PUHZ-RP125V/YKA2		PUHZ-RP140V/YKA2	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	7.1 (0.9-8.1)	8.0 (0.9-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.0 (5.5-14.0)	14.0 (5.0-16.0)	13.0 (6.2-15.3)	16.0 (5.7-18.0)
Input	(kW)	2.10	2.04	2.03	2.00	2.77	2.72	3.60	3.50	3.91	4.04
Rated EER/COP		3.38	3.92	3.50	4.00	3.61	4.12	3.33	4.00	3.32	3.96
Rated AEER/ACOP		3.33	3.86	3.31	3.78	3.34/3.31	3.81/3.78	3.14/3.11	3.76/3.74	3.09/3.07	3.76/3.73
AEER/ACOP (part-load %)※										3.68/3.63	
Indoor unit		PEAD-RP71JAA		PEAD-RP71JAA		PEAD-RP100JAA		PEAD-RP125JAA		PEAD-RP140JAA	
Power supply		V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V									
Airflow (Lo-Mid-Hi)	CMM	17.5-21-25				24-29-34		29.5-35.5-42		32-39-46	
	L/S	292-350-417				400-483-567		492-592-700		533-650-767	
External static pressure Pa		35/50/70/100/125									
Sound pressure level	(dB)	30-34-39				33-38-42		36-40-44		40-44-49	
Return air spigot size	(mm)	1,058×210				1,358×210		1,358×210		1,558×210	
Supply air spigot size	(mm)	1,060×178				1,360×178		1,360×178		1,560×178	
Dimensions Height	(mm)	250									
Dimensions Width	(mm)	1,100				1,400				1,600	
Dimensions Depth	(mm)	732									
Weight	(kg)	29				38		39		43	

※ MEPS compliant at part load

PEA SERIES

PEA-RP170/200WJA/250WHA



NEW

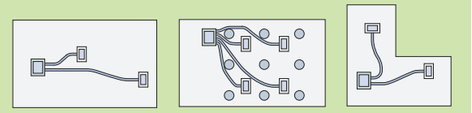
PEA-RP125/140GAA

optional

For elegance and style, the PEA series compliments the room environment with aesthetically pleasing ceiling installation and a vast line-up of performance functions.

Freedom in Installation

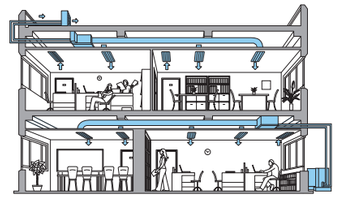
Versatile and easy installation is possible; for example, it is possible to adjust the distance between the air-intake and air-outlet vents to create the optimal airflow configuration.



■ Long rectangular room　■ Room with fixed ceiling fixtures　■ L-shaped room

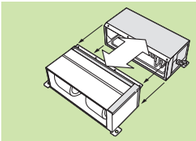
Flexible Duct Design Enables Use of High-pressure Static Fan

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



Easier Handling

The new ducted fan coil unit (PEA-RP170/200/250) now has a two-piece construction. This allows separation of the indoor unit heat exchanger and the fan deck assembly for easier handling into the roof space.



Must be reassembled and installed prior to using the system.

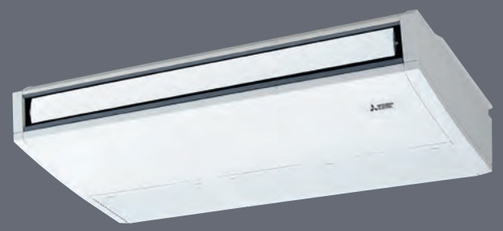
Computerised Dehumidification

The fan speed is controlled electronically in dehumidifying mode, increasing the range and efficiency of dehumidification.

Specifications: Ceiling-concealed (PEA)											
Indoor unit		PEA-RP125GAA		PEA-RP140GAA		PEA-RP170WJA		PEA-RP200WJA		PEA-RP250WHA	
Outdoor unit		PUHZ-RP125V/YKA2		PUHZ-RP140V/YKA2		PUHZ-RP170V/YKA2		PUHZ-RP200YKA2		PUHZ-RP250YKM	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.5 (6.2-15.3)	16.0 (5.7-18.0)	16.0 (9.0-20.0)	20.0 (9.5-22.4)	18.9 (9.0-22.4)	22.4 (9.5-25.0)	22.0 (11.2-27.0)	25.0 (12.5-29.0)
Input	(kW)	3.97	3.27	4.19	3.90	5.00	6.00	5.92	6.89	6.11	6.89
Rated EER/COP※1		3.15	4.28	3.22	4.10	3.20	3.33	3.19	3.25	3.60	3.62
Rated AEER/ACOP		2.98/2.96	4.01/3.98	3.06/3.04	3.88/3.86	3.16/3.11	3.22/3.18	3.04	3.12	3.27	3.37
AEER/ACOP (part-load %)※2		3.69/3.63		3.67/3.61				3.71			
Power supply		V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V									
Airflow (Lo-[Mid]-Hi)	CMM	50Pa: 48-60, 100Pa: 43-54, 150Pa: 41-52				50-61-72				58-71-84	
	L/S	50Pa: 800-1,000, 100Pa: 716-900, 150Pa: 683-866				833-1,017-1,200				967-1,183-1,400	
External static pressure Pa		50/100/150				60/75/100/150					
Sound pressure level※3	(dB)	42-45				38-41-44				40-43-46	
Return air spigot size	(mm)	1,102×330				1,100×420					
Supply air spigot size	(mm)	921×250				1,100×340					
Dimensions Height	(mm)	400				470					
Dimensions Width	(mm)	1,400				1,370					
Dimensions Depth	(mm)	634				1,120					
Weight	(kg)	63				108					

※1 Rated EER/COP for PEA-RP170/200WJA/250WHA are measured at ESP 75 Pa.
※2 MEPS compliant at part load
※3 Sound pressure level for PEA-RP125/140GAA are measured in anechoic chamber at ESP 50 Pa.
Sound pressure level for PEA-RP170/200WJA/250WHA are measured in anechoic chamber at ESP 150 Pa.

PCA SERIES



PCA-RP50/60/71/100/125/140KAQ

optional

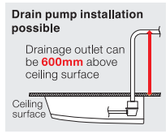
A stylish indoor unit design and airflow settings for both high- and low-ceiling interiors expand installation possibilities

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.

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.

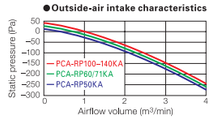


Equipped with Automatic Air-speed Adjustment

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.

Fresh Outside-air Intake

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



Equipped with High- /Low-ceiling Modes

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

Capacity	High ceiling	Standard ceiling	Low ceiling
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

Specifications: Ceiling-suspended (PCA)

Indoor unit			PCA-RP50KAQ		PCA-RP60KAQ		PCA-RP71KAQ		PCA-RP71KAQ		PCA-RP100KAQ		PCA-RP125KAQ		PCA-RP140KAQ	
Outdoor unit			SUZ-KA50VA3		SUZ-KA60VA3		SUZ-KA71VA3		PUHZ-RP71VHA5		PUHZ-RP100V/YKA2		PUHZ-RP125V/YKA2		PUHZ-RP140V/YKA2	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)		(kW)	4.9 (1.1-5.6)	5.5 (0.9-6.6)	5.7 (1.1-6.3)	6.9 (0.9-8.0)	7.1 (0.9-8.1)	7.9 (0.9-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.0 (5.5-14.0)	14.0 (5.0-16.0)	13.0 (6.2-15.3)	16.0 (5.7-18.0)
Input		(kW)	1.49	1.68	1.67	2.02	2.06	1.96	1.96	2.21	2.63	3.02	3.66	3.88	3.97	4.43
Rated EER/COP			3.29	3.27	3.41	3.42	3.45	4.03	3.62	3.62	3.80	3.71	3.28	3.61	3.27	3.61
Rated AEER/ACOP			3.22	3.22	3.35	3.36	3.39	3.96	3.42	3.44	3.50/3.47	3.46/3.43	3.09/3.07	3.41/3.39	3.10/3.08	3.41/3.39
AEER/ACOP (part-load %)*													4.19/4.11		3.91/3.85	
Power supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V													
Airflow (Lo-Mi2-Mi1-Hi)		CMM	10-11-13-15		15-16-17-19		16-17-18-20				22-24-26-28		23-25-27-29		24-26-29-32	
		L/S	167-183-217-250		250-267-283-317		267-283-300-333				367-400-433-467		383-417-450-483		400-433-483-533	
Sound pressure level		(dB)	32-34-37-40		33-35-37-40		35-37-39-41				37-39-41-43		39-41-43-45		41-43-45-48	
Dimensions	Height	(mm)	230													
	Width	(mm)	960		1,280						1,600					
	Depth	(mm)	680													
Weight		(kg)	25		32						36		38		39	

* MEPS compliant at part load

PKA SERIES

PKA-RP71/100KAL

optional standard

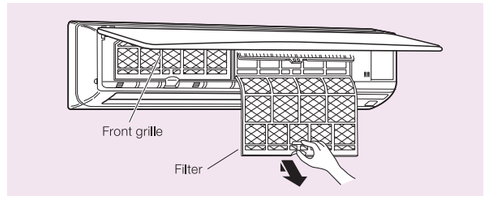
Elegant design and compact dimensions are ideal for offices, stores and residential-use

Auto-flap Shutter Enhances Good Looks

The Intake Grille Filter Can be Completely Removed Allowing Easy Cleaning

(Can be washed in water)

Filter slides out



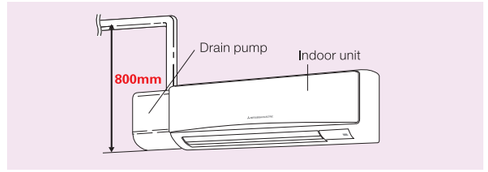
4-way Piping Provides More Flexibility in Selecting Installation Sites

Wired Remote Controller Available (Option)

A separately sold wired remote controller and a terminal block are available to suit various installation sites.

Drain Pump Option Available with All Models

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



Specifications: Wall-mounted (PKA)

Indoor unit			PKA-RP71KAL		PKA-RP100KAL	
Outdoor unit			PUHZ-RP71VHA5		PUHZ-RP100V/YKA2	
Function			Cooling	Heating	Cooling	Heating
Capacity (min.-max.)		(kW)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)
Input		(kW)	1.96	2.13	2.90	3.10
Rated EER/COP			3.62	3.76	3.45	3.61
Rated AEER/ACOP			3.42	3.56	3.20/3.17	3.34/3.31
Power supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V			
Airflow (Lo-Mid-Hi)		CMM	18-20-22		20-23-26	
		L/S	300-333-367		333-383-433	
Sound pressure level		(dB)	39-42-45		41-45-49	
Dimensions	Height	(mm)	365			
	Width	(mm)	1,170			
	Depth	(mm)	295			
Weight		(kg)	21			

SLZ/SEZ SERIES

SLZ-KA25/50VAQ(L)

optional for SLZ/SEZ-VAQ

optional for SLZ/SEZ-VAQ

SEZ-KD25/35/50/
60/71VAQ(L)

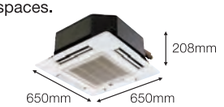
standard for SLZ-VAL

standard for SEZ-VAL

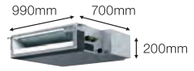
Compact, quiet concealed indoor units equipped with cutting-edge control technologies for enhanced comfort

Compact Designs

Models with capacity ranges for any room size. The dimensions of the SLZ are perfect for 2-metre-square installations, and the SEZ unit is a slim 200mm in height, making it ideal for tight installation spaces.



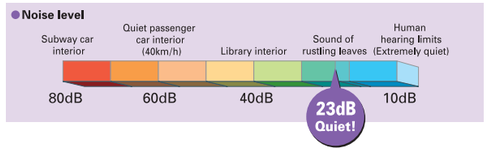
SLZ-KA25/50



SEZ-KD35/50

Impressively Quiet

S series units offer quiet operation at a hushed noise level of 23dB (SEZ-KD25/35), ensuring a calm and comfortable environment. They're so quiet that you'll find yourself checking to see if they're on.



Energy-saving Operation

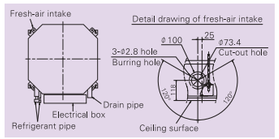
Boasting low electricity consumption, SLZ/SEZ series air conditioners are the key to fresh, cost-effective room comfort.

Air Cleaning Filter

This built-in filter removes dust and other particulates, keeping the air clean all the time. Maintenance is as simple as vacuuming. The long-life filter in SLZ series air conditioners can be used for approximately 2,500 hours before requiring replacement.

Fresh-air Intake

A duct hole is provided in the main body, making it possible to intake fresh air from outside.



Specifications: 4-way cassette / Compact ceiling-concealed (SLZ, SEZ)															
Indoor unit		SLZ-KA25VAQ(L)		SLZ-KA50VAQ(L)		SEZ-KD25VAQ(L)		SEZ-KD35VAQ(L)		SEZ-KD50VAQ(L)		SEZ-KD60VAQ(L)		SEZ-KD71VAQ(L)	
Outdoor unit		SUZ-KA25VA3		SUZ-KA50VA3		SUZ-KA25VA3		SUZ-KA35VA2		SUZ-KA50VA3		SUZ-KA60VA3		SUZ-KA71VA3	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	2.3 (0.9-3.2)	3.1 (0.9-4.5)	4.2 (1.1-5.2)	4.5 (0.9-6.5)	2.5 (0.9-3.2)	3.0 (0.9-4.5)	3.7 (1.0-3.9)	4.2 (0.9-5.0)	5.1 (1.1-5.6)	6.4 (1.1-7.2)	5.6 (1.1-6.3)	7.4 (0.9-8.0)	6.5 (0.9-8.3)	8.1 (0.9-10.4)
Input	(kW)	0.6	0.82	1.27	1.37	0.75	0.83	1.09	1.13	1.64	1.81	1.77	2.05	2.06	2.18
Rated EER/COP		3.83	3.78	3.31	3.28	3.33	3.61	3.39	3.72	3.11	3.54	3.16	3.61	3.16	3.72
Rated AEER/ACOP		3.65	3.66	3.23	3.22	3.21	3.49	3.31	3.62	3.05	3.48	3.11	3.55	3.10	3.66
AEER/ACOP (part-load %)*		4.32								3.72					
Power supply		V: Single-phase, 50Hz, 230V													
Airflow (Lo-Mid-Hi)	CMM	8-9-10		8-9-11		5.5-7-9		7-9-11		10-12.5-15		12-15-18		12-16-20	
	L/S	133-150-167		133-150-183		92-117-150		117-150-183		167-208-250		200-250-300		200-267-333	
External static pressure Pa		–				5/15/35/50									
Sound pressure level	(dB)	28-31-37		30-34-39		23-26-30		23-28-33		30-34-37		30-34-38		30-35-40	
Supply air spigot size	(mm)	–				660×150		860×150				1,060×150			
Dimensions Height	(mm)	Unit: 235, Panel: 20				200		200				200			
Dimensions Width	(mm)	Unit: 570, Panel: 650				790		990				1,190			
Dimensions Depth	(mm)	Unit: 570, Panel: 650				700		700				700			
Weight	(kg)	Unit: 16.5, Panel: 3				18		21		23		27			

* MEPS compliant at part load

Main features of Mr. Slim Inverter Units

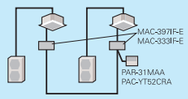
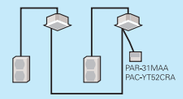
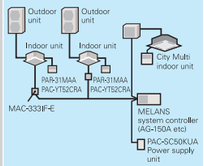
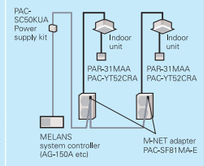
	Indoor unit	SLZ-VAQ	SLZ-VAL	SEZ-VAQ	SEZ-VAL	PLA		PEAD		PEA		PKA	PCA-KAQ	
Combination	Outdoor unit	SUZ	SUZ	SUZ	SUZ	PUHZ	SUZ	PUHZ	SUZ	PUHZ-HA PUHZ-KA	PUHZ-YKM	PUHZ	PUHZ	SUZ
Energy Saving	Felt Temperature Control (i-see Sensor)	–	–	–	–	Opt	Opt	–	–	–	–	–	–	–
	Demand Function	–	–	–	–	●	–	●	–	●	● *4	●	●	–
Attractive	Pure White	●	●	–	–	●	●	–	–	–	–	●	●	●
	Auto Vane	●	●	–	–	●	●	–	–	–	–	●	●	●
Air Quality	Fresh-air Intake	●	●	–	–	●	●	–	–	–	–	–	●	●
	High-efficiency Filter	–	–	–	–	Opt	Opt	–	–	–	–	–	Opt	Opt
	Oil Mist Filter	–	–	–	–	–	–	–	–	–	–	–	–	–
	Long-life Filter	●	●	–	–	●	●	●	●	–	–	–	●	●
	Filter Check Signal	●	–	–	–	●	●	●	●	–	–	Opt	●	●
Air Distribution	Horizontal Vane (Auto Swing)	●	●	–	–	●	●	–	–	–	–	●	●	●
	High Ceiling Mode	–	–	–	–	●	●	–	–	–	–	–	●	●
	Low Ceiling Mode	–	–	–	–	●	●	–	–	–	–	–	●	●
	Auto Fan Speed Mode	–	–	●	●	●	●	●	●	–	–	●	●	●
Convenience	On/Off Operation Timer	●	●	●	●	●	●	●	●	●	● *5	●	●	●
	Auto Change Over *1	●	●	●	●	●	●	●	●	●	–	●	●	●
	Auto Restart	●	●	●	●	●	●	●	●	●	●	●	●	●
	Low-temperature Cooling	●	●	●	●	●	●	●	●	●	●	●	●	●
	Low-noise Operation (Outdoor Unit)	–	–	–	–	●	–	●	–	●	●	●	●	–
	Rotation, Back-up and 2nd Stage Cut-in Function	–	–	–	–	Opt	–	Opt	–	–	–	Opt	●	–
System Control	PAR-31MAA Control *2	Opt	–	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	PAC-YT52CRA Control *2	Opt	–	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt
	System Group Control *2	Opt	Opt	Opt	Opt	●	Opt	●	Opt	●	●	Opt	●	Opt
	M-NET Connection *2	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	Opt	●	Opt	Opt	Opt
Installation	Reuse of Existing Wiring	–	–	–	–	Opt	–	Opt	–	–	–	Opt	Opt	–
	Drain Pump	●	●	Opt	Opt	●	●	–	–	–	–	Opt	Opt	Opt
	Pump Down Switch	–	–	–	–	●	–	●	–	●	–	●	●	–
	Flare Connection	●	●	●	●	●	●	●	●	● *3	–	●	●	●
Maintenance	Self-Diagnosis Function (Check Code Display)	●	●	●	●	●	●	●	●	●	●	●	●	●
	Failure Recall Function	●	●	●	●	●	●	●	●	●	● *6	●	●	●

*1 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible.
*2 Please refer "System Control" on page 21 for details.
*3 Not available with PEA-RP170/200WJA and PEA-RP250WHA models.
*4 Schedule timer not available
External contact only
*5 Remote controller timer function only
*6 Only error display on remote controller

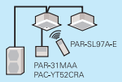
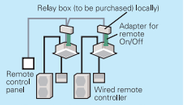
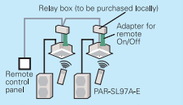
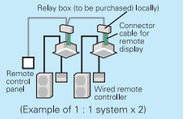
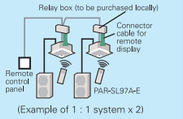
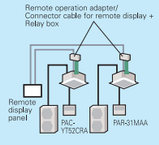
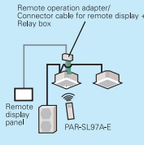
System Controls (SUZ and Mr. Slim Power Inverter only)

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

MAJOR SYSTEM CONTROL

	System Examples		Details	Major Optional Parts Required
Indoor Unit	S Series & P Series Indoor Unit	P Series Indoor Unit		
Outdoor Unit	S Series Outdoor	P Series Outdoor		
A PAR-31MAA Control PAC-YT52CRA Control			Standard equipment (for indoor units compatible with wired remote controllers)	• PAR-31MAA (Wired remote controller) • PAC-YT52CRA (Wired remote controller)
B System Group Control			• One remote controller can control plural air conditioners with the same settings simultaneously. • One remote controller can control up to 16 refrigerant systems. • Up to two remote controller can be connected.	<S Series Outdoor Unit> • MAC-397IF-E/MAC-333IF-E (Interface) • PAR-31MAA (Wired remote controller) • PAC-YT52CRA (Wired remote controller) <P Series Outdoor Unit> • PAR-31MAA (Wired remote controller) • PAC-YT52CRA (Wired remote controller)
C M-NET Connections			• Group of air conditioners can be controlled by MELANS system controller (M-NET).	<S Series Outdoor Unit> • MAC-333IF-E • MELANS System controller • PAC-SC50KUA (power supply unit) <P Series Outdoor Unit> • PAC-SF83MA-E (M-NET converter) • MELANS System controller • PAC-SC50KUA (power supply unit)

FOR P SERIES AND S SERIES INDOOR UNITS

	System Examples		Details	Major Optional Parts Required
	Wired remote controller	Wireless remote controller		
A 2-remote Controller Control With two remote controllers, control can be performed locally and remotely from two locations.	 * Set "Main" and "Sub" remote controllers. (Example of 1 : 1 system)	 * When using wired and wireless remote controllers (Example of Simultaneous Twin)	• Up to two remote controllers can be connected to one group. • Both wired and wireless remote controllers can be used in combination.	• Wired Remote Controller **PAR-31MAA** **PAC-YT52CRA** (for PKA, **PAC-SH29TC-E** is required) • Wireless Remote Controller **PAR-SL97A-E** (for SEZ and PEAD) • Wireless Remote Controller Kit for PCA **PAR-SL94B-E**
B Operation Control by Level Signal Air conditioner can be started/stopped remotely. In addition, On/Off operation by local remote controller can be prohibited/permitted.	 (Example of 1 : 1 system x 2)	 (Example of 1 : 1 system x 2)	• Operation other than On/Off (e.g., adjustment of temperature, fan speed, and airflow) can be performed even when remote controller operation is prohibited. • Timer control is possible with an external timer.	• Adapter for remote On/Off **PAC-SE55RA-E** • Relay box (to be purchased locally) • Remote control panel (to be purchased locally)
C Operation Control by Pulse Signal	 (Example of 1 : 1 system x 2)	 (Example of 1 : 1 system x 2)	• The pulse signal can be turned On/Off. • Operation/emergency signal can be received at a remote location.	• Connector cable for remote display **PAC-SA88HA-E / PAC-725AD** **(10 pcs. x PAC-SA88HA-E)** • Relay box (to be purchased locally) • Remote control panel (to be purchased locally)
D Remote Display of Operating Status Operating status can be displayed at a remote location.	 (Example of 1 : 1 system)	 (Example of Simultaneous Twin)	• Operation/emergency signal can be received at a remote location (when channeled through the **PAC-SF40RM** → no-voltage signal, when channeled through the **PAC-SA88HA-E** → DC 12V signal).	• Remote display panel (to be purchased locally) • Connector cable for remote display **PAC-SA88HA-E / PAC-725AD** **(10 pcs. x PAC-SA88HA-E)** • Relay box (to be purchased locally) • Remote operation adapter **PAC-SF40RM** *Unable to use with wireless remote controller
E Timer Operation Allows On/Off operation with timer *For control by an external timer, refer to B Operation Control by Level Signal.	 (Example of 1 : 1 system)		• **Weekly Timer:** On/Off and up to 8 pattern temperatures can be set for each calendar day. (Initial setting) • **On/Off Timer:** On/Off can be set once each within 72 hr in intervals of 5-minute units. • **Auto-off Timer:** Operation will be switched off after a certain time elapse. Set time can be changed from 30 min. to 4 hr. at 10 min. intervals. *Simple Timer and Auto-off Timer cannot be used at the same time.	Standard functions of **PAR-31MAA**

Specification: Outdoor Unit

Outdoor unit							
			SUZ-KA25VA3	SUZ-KA35VA2	SUZ-KA50VA3	SUZ-KA60VA3	SUZ-KA71VA3
External finish			Munsell 3.0Y 7.8/1.1				
Power supply			Single-phase, 50Hz, 230V				
Compressor output		(kW)	0.55	0.65	0.9	0.9	1.2
Airflow (cooling/heating)		CMM (L/S)	34 (568)/32 (534)	33 (551)	49 (817)	58 (960)/49 (816)	57 (950)/48 (800)
Sound pressure level (dB)	Cooling mode		46	47	53	55	
	Heating mode		46	48	55	55	
Sound level		(dB)	59	61	68	69	
Dimensions	Height	(mm)	550		850	880	
	Width	(mm)	800		840	840	
	Depth	(mm)	285		330	330	
Weight		(kg)	30	33	53	50	53
Chargeless piping length		(m)	7				
Max. piping length		(m)	20		30		
Breaker size		(A)	10		20		

*Above specifications are for outdoor units only.

Outdoor unit						
			PUHZ-RP71VHA5	PUHZ-RP100V/YKA2	PUHZ-RP125V/YKA2	PUHZ-RP140V/YKA2
External finish			Munsell 3.0Y 7.8/1.1			
Power supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V			
Compressor output		(kW)	1.6	1.9	2.4	2.9
Airflow (cooling/heating)		CMM (L/S)	60 (1,000)	110 (1,830)	120 (2,000)	
Sound pressure level (dB)	Cooling mode		47	49	50	50
	Silent mode		44	46	47	47
	Heating mode		48	51	52	52
Sound level		(dB)	66	69	70	70
Dimensions	Height	(mm)	943	1,338		
	Width	(mm)	950	1,050		
	Depth	(mm)	330	330		
Weight		(kg)	67	V: 118 Y: 119		V: 120 Y: 121
Chargeless piping length		(m)	30	30		
Max. piping length		(m)	50	75		
Protection device			Discharge thermo, HP switch			
Rated running current (cooling/heating)		(A)	9.05/9.64	V: 12.64/13.58 Y: 4.42/4.75	V: 16.36/16.90 Y: 5.73/5.91	V: 17.17/19.23 Y: 6.01/6.73
Breaker size		(A)	25	V: 32 Y: 16		V: 40 Y: 16

*Above specifications are for outdoor units only.

Specifications: Outdoor Unit

Outdoor unit			PUHZ-RP170V/YKA2	PUHZ-RP200YKA2	PUHZ-RP250YKM
External finish			Munsell 3.0Y 7.8/1.1	Munsell 3.0Y 7.8/1.1	Munsell 5.0Y 8.0/1.0 or Similar
Power supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V		
Compressor output		(kW)	3.0	3.6	6.9
Airflow (cooling/heating)		CMM (L/S)	140 (2,330)	140 (2,330)	175 (2,917)
Sound pressure level (dB)	Cooling mode		58	58	58
	Silent mode		56	56	48
	Heating mode		59	59	58
Sound level		(dB)	76	76	78
Dimensions	Height	(mm)	1,338	1,338	1,650
	Width	(mm)	1,050	1,050	920
	Depth	(mm)	330	330	740
Weight		(kg)	V: 127 Y: 131	136	199
Chargeless piping length		(m)	30	30	0
Max. piping length		(m)	75	75	75
Protection device			Discharge thermo, HP switch		
Rated running current (cooling/heating)		(A)	V: 19.4/23.9 Y: 6.8/8.3	8.2/9.7	9.7/11.0
Breaker size		(A)	V: 40 Y: 32	32	32

*Above specifications are for outdoor units only.

Notes for All Specifications

Rating conditions (AS/NZS 3823)
Cooling - Indoor: 27°C (80°F) DB, 19°C (66°F) WB
Outdoor: 35°C (95°F) DB
Heating - Indoor: 20°C (68°F) DB
Outdoor: 7°C (45°F) DB, 6°C (43°F) WB
Refrigerant piping length (one-way): 5m (16ft.)

Total input based on the indicated voltage (indoor/outdoor)

	Indoor	Outdoor
50Hz	Single-phase, 230V	Single-phase, 230V/Three-phase, 400V

Guaranteed Operating Range

		SUZ-KA		PUHZ	
		25/35	50/60/71	71/100/125/140/170/200	250
Cooling	Upper limit (DB)	46°C	43°C	46°C	46°C
	Lower limit (DB)	–10°C	–15°C	–5°C (–15°C*)	–5°C
Heating	Upper limit (DB)	24°C	24°C	21°C	15.5°C (WB)
	Lower limit (DB)	–15°C	–15°C	–20°C	–20°C (WB)

* With the optional air protection guide, the operation at –15°C outdoor temperature is possible.

Sound Pressure Level

- Sound pressure measurements were conducted in an anechoic chamber.
- The actual noise level depends on the distance from the unit and the acoustic environment.

Optional Parts

Part name	Model name	Application name
Air discharge guide	PAC-SG59SG-E	PUHZ-RP71
	PAC-SH96SG-E	PUHZ-RP100/125/140/170/200
Air outlet shutter plate	PAC-SH51SP-E	PLA-RP
Air protection guide	PAC-SH63AG-E	PUHZ-RP71
	PAC-SH95AG-E	PUHZ-RP100/125/140/170/200
Control/service tool	PAC-SK52ST	PUHZ-RP71/100/125/140/170/200
Centralized drain pan	PAC-SG64DP-E	PUHZ-RP71
	PAC-SH97DP-E	PUHZ-RP100/125/140/170/200
Drain pump	PAC-SH94DM-E	PKA-RP
	PAC-SH83DM-E	PCA-RP50KAQ
	PAC-SH84DM-E	PCA-RP71/100/125/140KAQ
	PAC-SH85DM-E	PCA-RP60KAQ
	PAC-KE07DM-E	SEZ-KD
Drain socket	PAC-SG61DS-E	PUHZ-RP71/100/125/140/170/200
Flange for fresh-air intake	PAC-SH65OF-E	PLA-RP
Liquid refrigerant dryer for pipe ø9.52	PAC-SG82DR-E	PUHZ-RP
MA & Contact terminal interface	MAC-397IF-E	SLZ-KA, SEZ-KD, PLA-RP60/71*1 PEAD-RP71*1, PCA-RP50/60/71*1
M-NET interface	MAC-399IF-E	SLZ-KA, SEZ-KD, PLA-RP60/71*1 PEAD-RP71*1, PCA-RP50/60/71*1
M-NET &Terminal interface	MAC-333IF-E	SLZ-KA, SEZ-KD, PLA-RP60/71*1 PEAD-RP71*1, PCA-RP50/60/71*1
Wireless remote controller	PAR-FL32MA-E	PEAD-RP
Wireless remote controller signal sender	PAR-SL97A-E	SEZ-KD, PLA-RP
Wireless remote controller signal receiver	PAR-SA9CA-E	SEZ-KD, PEAD-RP
	PAR-SA9FA-E	PLA-RP
High efficiency filter	PAC-SH88KF-E	PCA-RP50KAQ
	PAC-SH89KF-E	PCA-RP60/71KAQ
	PAC-SH90KF-E	PCA-RP100/125/140KAQ

Part name	Model name	Application name
High efficiency filter element	PAC-SH59KF-E	PLA-RP
Filter box	PAC-KE93TB-E	PEAD-RP71
	PAC-KE94TB-E	PEAD-RP100/125
	PAC-KE95TB-E	PEAD-RP140
i-see sensor corner panel	PAC-SA1ME-E	PLA-RP
Shutter plate	PAC-SH51SP-E	PLA-RP
Joint pipe 9.52→12.7 15.88→19.05	PAC-SG73RJ-E PAC-SG75RJ-E	PUHZ-RP71/100/125/140/170/200 PUHZ-RP71/100/125/140
M-NET converter	PAC-SF83MA-E	PUHZ-RP71/100/125/140/170/200
Multi-function casement	PAC-SH53TM-E	PLA-RP
Power supply terminal kit	PAC-SG94HR-E	PKA-RP
	PAC-SG96HR-E	PCA-RP50/60/71/100/125/140KAQ
	PAC-SG97HR-E	PEAD-RP
	PAC-SH52HR-E	PLA-RP
Remote On/Off adaptor	PAC-SE55RA-E	All indoor units
Remote operation adaptor	PAC-SF40RM-E	All indoor units*2 (excluding PKA-RP)
Remote sensor	PAC-SE41TS-E	All indoor units
Space panel	PAC-SH48AS-E	PLA-RP
Terminal block	PAC-SH29TC-E	PKA-RP for wired remote controller
Connector cable for remote display	PAC-SA88HA-E	All indoor units
Wired remote controller	PAR-31MAA	All indoor units (excluding SLZ-VAL and SEZ-VAL)
	PAC-YT52CRA	
Wireless remote controller kit (Sender & Receiver)	PAR-SL94B-E	PCA-RP
Power supply unit	PAC-SC50KUA	All outdoor units
Multiple remote controller adaptor	PAC-725AD	All indoor units

*1 P series indoor units can be used in combination with SUZ outdoor units.
*2 Unable to use with wireless remote controller

Refrigerant Piping

Capacity	Between indoor & outdoor units		Pipe size OD (mm)	Thickness (mm)
	Max. height difference (m)	Max. piping length (m)		
SUZ-KA25	12	20	Liquid: ø6.35	t 0.8
			Gas: ø9.52	t 0.8
SUZ-KA35	12	20	Liquid: ø6.35	t 0.8
			Gas: ø9.52	t 0.8
SUZ-KA50	30	30	Liquid: ø6.35	t 0.8
			Gas: ø12.7	t 0.8
SUZ-KA60	30	30	Liquid: ø6.35	t 0.8
			Gas: ø15.88	t 1.0
SUZ-KA71	30	30	Liquid: ø9.52	t 0.8
			Gas: ø15.88	t 1.0
PUHZ-RP71	30	50	Liquid: ø9.52	t 0.8
			Gas: ø15.88	t 1.0
PUHZ-RP100/125/140	30	75	Liquid: ø9.52	t 0.8
			Gas: ø15.88	t 1.0
PUHZ-RP170/200	30	75	Liquid: ø9.52	t 0.8
			Gas: ø25.4	t 1.0
PUHZ-RP250	30	75	Liquid: ø9.52	t 0.8
			Gas: ø22.2	t 1.0

Amount of Necessary Refrigerant (R410A: kg)

Piping length	Factory charged	Additional charged					Calculation
	7m	10m	15m	20m	25m	30m	
SUZ-KA25	0.8	0.15	0.3	0.45	—	—	Xg=30g/m×(length-5)m
SUZ-KA35	1.05	0.15	0.3	0.45	—	—	
SUZ-KA50	1.6	0.06	0.16	0.26	0.36	0.46	Xg=20g/m×(length-7)m
SUZ-KA60	1.8	0.06	0.16	0.26	0.36	0.46	
SUZ-KA71	1.8	0.165	0.44	0.715	0.99	1.265	Xg=55g/m×(length-7)m

Piping length	Factory charged	Additional charged			
	10 - 30m	31 - 40m	41 - 50m	51 - 60m	61 - 75m
PUHZ-RP71	3.5	0.6	1.2	—	—
PUHZ-RP100/125/140	5.5	0.6	1.2	1.8	2.4

Piping length	Factory charged	Additional charged			
	10 - 30m	31 - 40m	41 - 50m	51 - 60m	61 - 70m
PUHZ-RP170/200	7.7	0.9	1.8	2.7	3.6

In the Case of PUHZ-RP250YKM

Calculation of additional refrigerant charge

- Calculate the amount of additional charge based on the length of the piping extension and the size of the refrigerant line.
- Use the table below as a guide to calculating the amount of additional charging and charge the system accordingly.
- If the calculation results in a fraction of less than 0.1 kg, round up to the next 0.1 kg.
  For example, if the result of the calculation was 11.38 kg, round the result up to 11.4 kg.

<Additional Charge>

Additional refrigerant charge	=	Liquid pipe size Total length of ø9.52×0.06	+ 3.0 kg
(kg)		(m)×0.06 (kg/m)	

Factory Charge: 9 kg

⚠ NOTICE

- Air conditioners in this brochure contain and operate with refrigerant R410A and synthetic oils.
  Before attempting any installation work you must read the installation instructions.
  New tools, materials and procedures are required to install these products.
  Under Australian Law, only persons suitably licensed are permitted to install and service air conditioning units.
  Refer to Country, Commonwealth, State or Territory legislation, regulations and industry codes of practice, before installation of these products.
  Recovery and disposal of waste material must comply with Country, Commonwealth, State or Territory guidelines.
- 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.
- When installing or relocating or servicing the air conditioners, use only the specified refrigerant (R410A) 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 or system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.