MITSUBISHI ELECTRIC

Natural Comfort for Everybody

Mr.SLIM

AIR CONDITIONING SYSTEMS

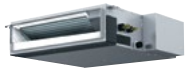
Comfort takes on new meaning with the power of technology

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

Mr.SLIM

Contents

Product Line-up

		2.5kW	3.5kW	5.0kW	6.0kW	7.1kW	10.0kW
4-Way Ceiling Cassette	SLZ Series Compact Cassette	 SLZ-KA25VAQ(L)		 SLZ-KA50VAQ(L)			
	PLA Series Wide Power Cassette				 PLA-RP60BA	 PLA-RP71BA	 PLA-RP100BA
Compact Bulkhead	SEZ Series	 SEZ-KD25VAQ(L)	 SEZ-KD35VAQ(L)	 SEZ-KD50VAQ(L)	 SEZ-KD60VAQ(L)	*Combination only with SUZ-KA71  SEZ-KD71VAQ(L)	
Ceiling-Concealed	PEAD Series					 PEAD-RP71JAAD	 PEAD-RP100JAAD
	PEA Series						 PEA-RP100GAA
Ceiling-Suspended	PCA Series			 PCA-RP50KAQ	 PCA-RP60KAQ	 PCA-RP71KAQ	 PCA-RP100KAQ
Wall-Mounted	PKA Series					*Combination only with PUHZ-RP71  PKA-RP71KAL	 PKA-RP100KAL
Outdoor Unit		 SUZ-KA25VAD	 SUZ-KA35VAD	 SUZ-KA50VAD	 SUZ-KA60VAD	SUZ-KA71VAD  PUHZ-RP71VHA5	 PUHZ-RP100V/YKA2

*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.

12.5kW	14.0kW	17.0kW	20.0kW	25.0kW	Remote Controller	See Page
					 optional for SLZ-VAQ optional for SLZ-VAQ standard for SLZ-VAL	22
 PLA-RP125BA	 PLA-RP140BA				 optional optional optional	16/17
					 optional for SEZ-VAQ optional for SEZ-VAQ standard for SEZ-VAL	22
 PEAD-RP125JAAD	 PEAD-RP140JAAD				 optional optional optional optional	18
 PEA-RP125GAA	 PEA-RP140GAA	 PEA-RP170WJA	 PEA-RP200WJA	 PEA-RP250WHA	 optional optional optional	19
 PCA-RP125KAQ	 PCA-RP140KAQ				 optional optional optional	20
					 optional optional optional	21
 PUHZ-RP125V/YKA2	 PUHZ-RP140V/YKA2	 PUHZ-RP170V/YKA2	 PUHZ-RP200V/YKA2	 PUHZ-RP250YKM		

Advanced Power Inverter

Mitsubishi Electric's Power Inverter Systems Increase Energy Efficiency

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

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.

The units with service reference number PUHZ-RP·VHA5R1-A and PUHZ-RP·V/YKA2R1-A are demand response capable. This capability is possible with the connection of a demand response enabling device (DRED) to the terminal block interface (BT00C023G02).

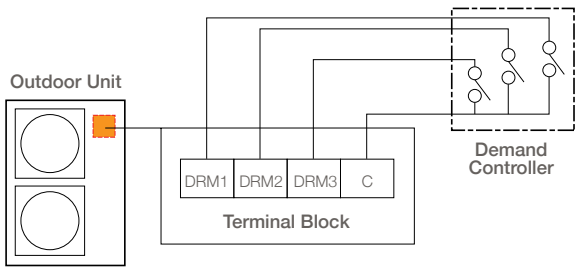
This item is supplied in a sealed bag located in the compressor chamber. Connection of the terminal block interface is a mandatory requirement for the installation of any PUHZ-RP·VHA5R1-A and PUHZ-RP·V/YKA2R1-A units. When installed, the system is demand response capable; that is, ready to be connected to a demand response enabling device (DRED)*.

*PUHZ-RP250 is excluded.

Please contact Mitsubishi Electric Australia Pty. Ltd. for details.

Air Conditioner Demand Response Mode

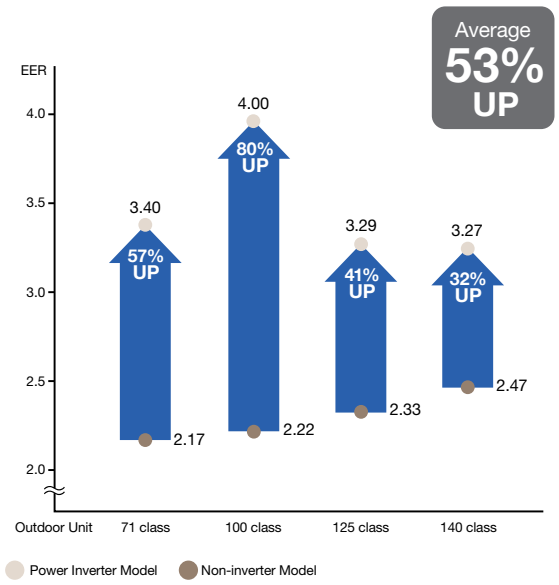
Demand Response Mode (DRM)	Description of Operation in this Mode
DRM1	Compressor Off
DRM2	The air conditioner continues to cool or heat during the demand response event, but the electrical energy consumed by the air conditioner in a half hour period is not more than 50% of the total electrical energy 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.



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

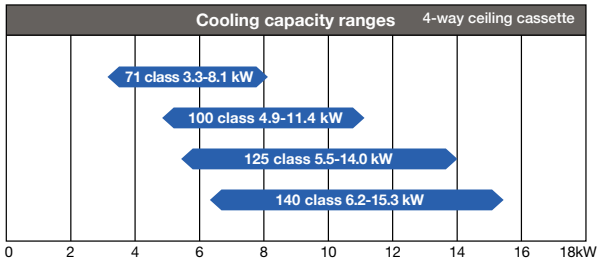
The maximum operating cooling/heating capacity of the Mr. Slim Power Inverter units have been improved (compared to conventional Non-Inverter models) when operating in either low or high outdoor temperatures.

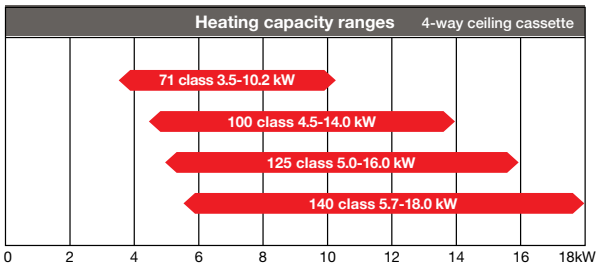
Cooling Capacity (kW) 4-Way Ceiling Cassette			
	R22 Non-Inverter	R401A Power Inverter Max. (PUHZ-RP)	
71 Class	7.7	8.1	105%
100 Class	9.7	11.4	118%
125 Class	12.4	14.0	113%
140 Class	14.0	15.3	109%

Heating Capacity (kW) 4-Way Ceiling Cassette			
	R22 Non-Inverter	R401A 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.





Long Maximum Piping Length

The maximum piping length is 75m. Therefore there is a wide range of layout possibilities for unit installation.

Max. Piping Length		
	Max. Height Difference	Max. Piping Length (One-Way)
PUHZ-RP71	30m	50m
PUHZ-RP 100/125/140/170/200/250	30m	75m

Cleaning-Free* Pipe Reuse Technology

PUHZ-RP71-200

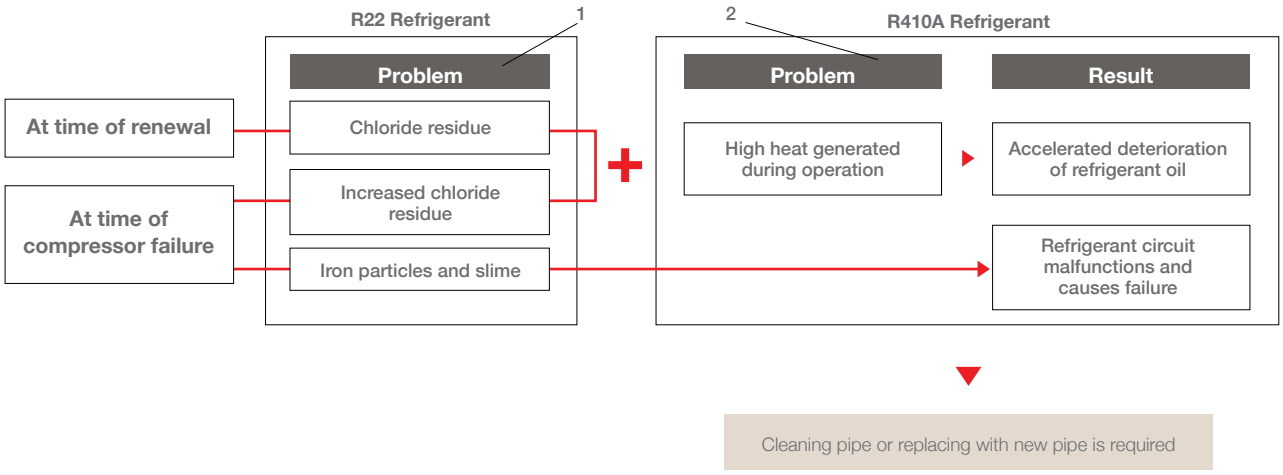
Ability to Use Existing Piping Reduces Pipe Waste and Replacement Time

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”.

This feature is available in the PUHZ-RP71-200.

Why Can’t Existing Piping Be Used?



Mitsubishi Electric’s Original Replacement Technologies

Countermeasure for Problem 1

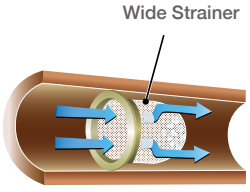
Technology 1:
Original High-Quality Filtration

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 provides cleaning-free pipe reuse. In addition, improvements to the metal used in the bearings of our new scroll compressors provide 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.

*Cleaning-Free Pipe Reuse Technology specifically applies to piping which is contaminated with chlorine residue, iron particles and slime. These contaminants are typically found in piping in which the previous system utilised R22 refrigerant. Cleaning-Free Pipe Reuse Technology cannot be used to clean pipes which contain foreign matter other than what can be generated from an operating air conditioner.

Advanced Technology for High Efficiency

Highly Efficient Fan and Grille for Outdoor Unit

The shape of the fan and the grille in the outdoor unit has been redesigned to increase the airflow and to make the heat exchange process more efficient 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. Airflow has been increased while maintaining the same fan rotation speed.

Opening increased from 490 to 550mm in diameter

Grille Shape Changed

PUHZ-RP71-200

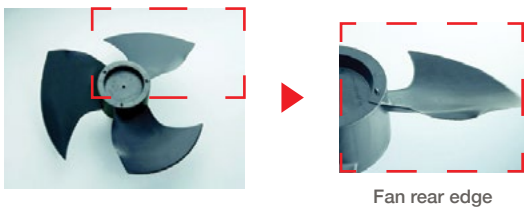
The shape of the air outlet grille has been changed to reduce pressure loss. This has helped to improve heat exchange performance.

PUHZ-RP•HA PUHZ-RP•KA

Inflexed Fan

PUHZ-RP100-200

Integrating a fan with improved ventilation characteristics and a newly designed rear edge that suppresses wind turbulence increases fan operation efficiency.



Fan rear edge

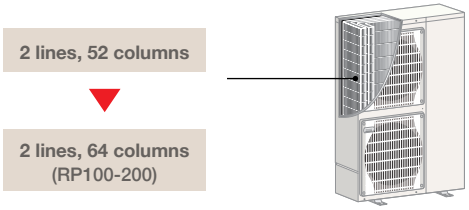
Highly Efficient Heat Exchanger

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

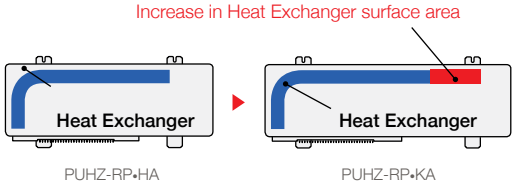
The pipe diameter has been changed from 9.52 to 7.94mm, resulting in a high-density heat exchanger.



Heat-Exchange Surface Area Increased

PUHZ–RP100–200

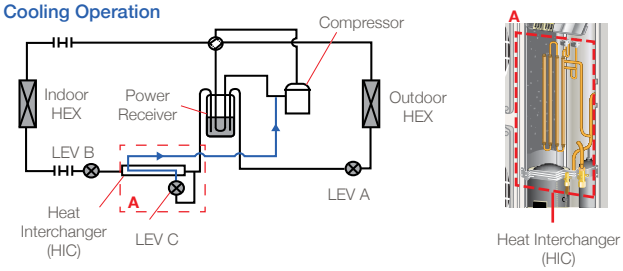
The heat exchanger size has been extended horizontally, hence increasing the surface area.

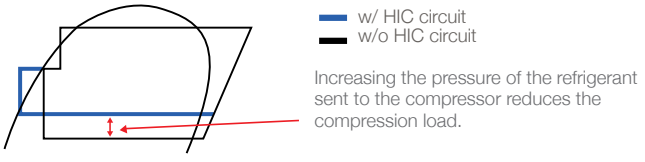


Heat Interchanger (HIC) Added

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 the overall pressure of the refrigerant being sent to the compressor, thereby reducing the load on the compressor and increasing efficiency.





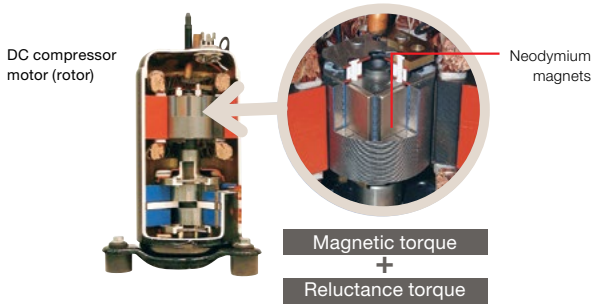
Advanced Technology for High Efficiency

Numerous leading-edge technologies assure high efficiency.

Reluctance DC Rotary Compressor

PUHZ-RP71

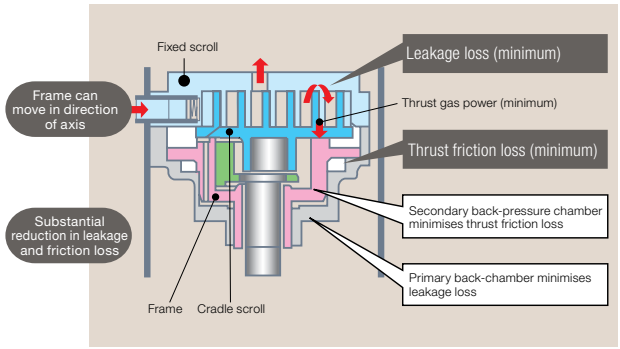
The reluctance DC motor has a rotor equipped with powerful neodymium magnets. The magnetic torque produced by the neodymium magnets and reluctance torque results in more efficient operation.



Highly Efficient DC Scroll Compressor

PUHZ-RP100–200

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 higher efficiency at all speeds.



DC Fan Motor

PUHZ-RP71–200

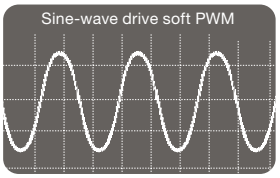
A highly efficient DC motor has been installed to drive the fan of outdoor units, realising up to 60% higher efficiency when compared to an equivalent AC motor.

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 energy consumption is reduced.

Smooth AC Wave Pattern

The inverter size has been reduced using insert-molding, where the circuit pattern is molded into the synthetic resin. 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.

Wi-Fi Controller

MAC-559IF-E

Wi-Fi Control unlocks the door to smarter heating or cooling, for total home comfort wherever you are. This innovative technology connects your domestic high wall, floor mounted and ducted air conditioner to your smartphone, tablet or online account, giving you the freedom to fully control each unit on-the-go via an Internet connection from anywhere in the world.

Available for Download

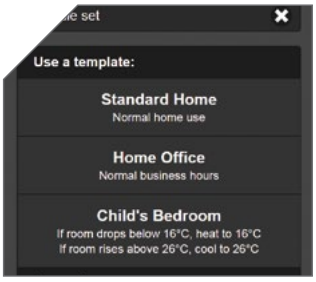
Download the Wi-Fi app from the App Store or Google Play.

Available on the iPhone App Store

GET IT ON Google Play

Superior Customisation

This innovative technology places multiple functions of your air-conditioner at your fingertips. Turning the unit on/off, adjusting set temperature, changing mode, fan speed and airflow direction are all possible.

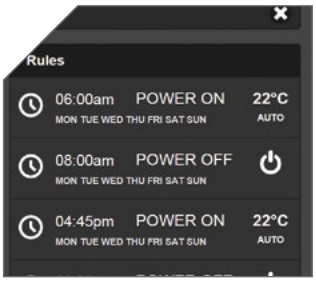


Develop Operating Rules

Tailor your system to always meet your needs. Unlock the full potential of your air-conditioner, program your system to automatically turn on/off at specific times, change settings, and develop temperature rules to ensure superior comfort day after day.

Room Temperature Limits

With the ability to sense the room temperature and automatically turn the unit On/Off, it takes the room to the desired temperature, creating ultimate comfort for your home. In winter set minimum temperatures to warm up your home and in summer set maximum temperatures to create comfort, cooling the room.



Control Multiple Units

Customise the settings of each air-conditioner in your home. Purchase multiple adaptors to manage all air-conditioners independently on the same account to ensure complete control over your system. The result is a system tailored to your needs.

Minimum Requirements

You will require:

- A compatible WPS router with WPA2-AES encryption, with coverage including the air conditioner's installation location.
- A PC/Tablet/Smartphone that is iOS, Android compatible.
- A MAC-559IF-E adapter per indoor unit.
- Compatible Mitsubishi Electric air-conditioner.

For a full list of requirements visit **mitsubishielectric.com.au/wifi**

Wi-Fi FEATURES

- View and control from anywhere in the world
- Enhance energy savings
- Set up 7 day weekly schedule
- Wireless connection using WPS

MA Wall Controller

PAR-33MAA-J

Easier to read thanks to use of a Full Dot Liquid-Crystal Display with backlight, and easier to use with a menu format that has reduced the number of operating buttons.

Multi-Language Display

Control panel operation in eight different languages.
Choose the desired language, among the following:

English Spanish Italian German

French Russian Portuguese Swedish

Display Example (Operation Mode)

Full Dot LCD

PAR-33MAA-J

Energy Efficiency 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%

Operation Lock

Fixed temperature setting promotes energy efficiency

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 efficiency. This feature is also useful in preventing erroneous operation or tampering.

Recommended for:
Offices, Schools, Public Halls, Hospitals, Computer Server Facilities

Night Setback

Keep desired room temperatures automatically

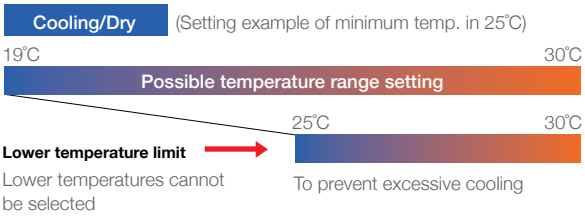
This function monitors the room temperature and automatically activates the heating mode when the temperature drops below the preset minimal temperature setting. It has the same function for cooling, automatically activating the cooling mode when the temperature rises above the preset maximum temperature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

Temperature Range Restriction

Prevents Overcooling/Overheating

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

*Based on Mitsubishi Electric laboratory tests in controlled conditions



Recommended for:
Offices and Restaurants

Auto-Return

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

After adjusting the temperature for initial cooling on a hot summer day or heating in winter, 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 overcooling/overheating.
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 cooling/heating off automatically after preset time elapse

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, eliminating all anxiety about forgetting to turn off the unit.

Recommended for:
Meeting Rooms and Changing Rooms

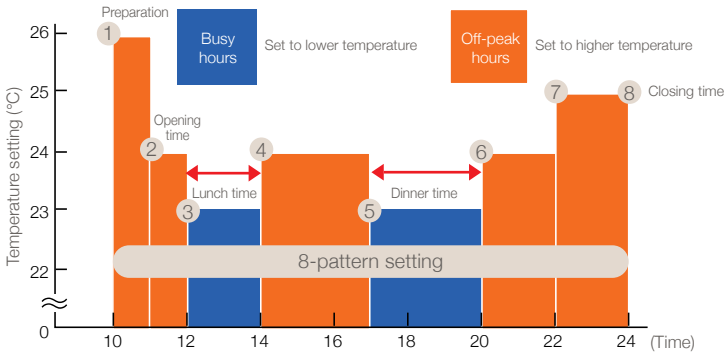
Weekly Timer

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 by Mitsubishi Electric.

Rotation, Back-up and 2nd Stage Cut-in Functions (PAR-33MAA-J)

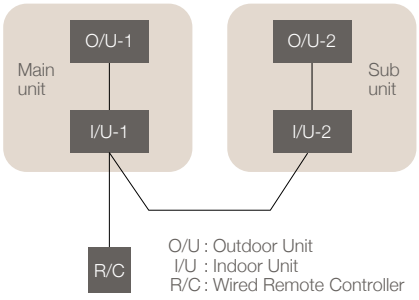
PUHZ-RP71–200

(1) Rotation and Back-up Functions

Function Outline

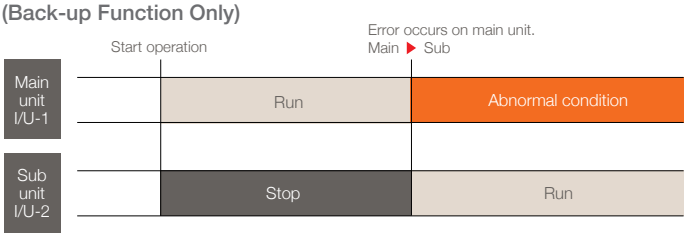
- Main and Sub units take turns operating according to a rotation interval setting.
- If one unit malfunctions, the other unit automatically begins operation (Back-up Function).

System Image

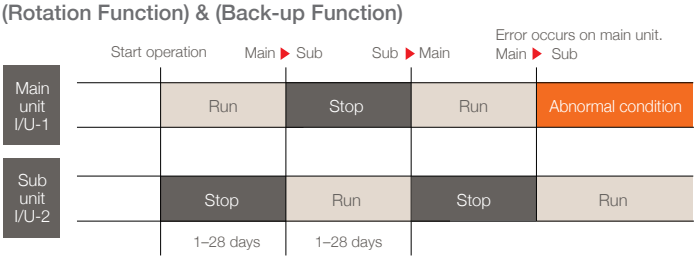


Operation Pattern

(Back-up Function Only)



(Rotation Function) & (Back-up Function)



(When the request code "313", each unit operates alternatively in daily cycle)

(2) 2nd Stage Cut-in Function

Function Outline

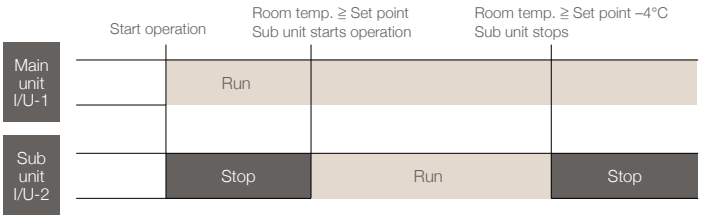
- Number of units operating is based on room temperature and predetermined settings.
- When room temperature rises above the desired setting, the standby unit starts (2-unit operation).
- When the room temperature falls 4°C below the predetermined setting, the standby unit stops (1-unit operation).

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.

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 was reset.

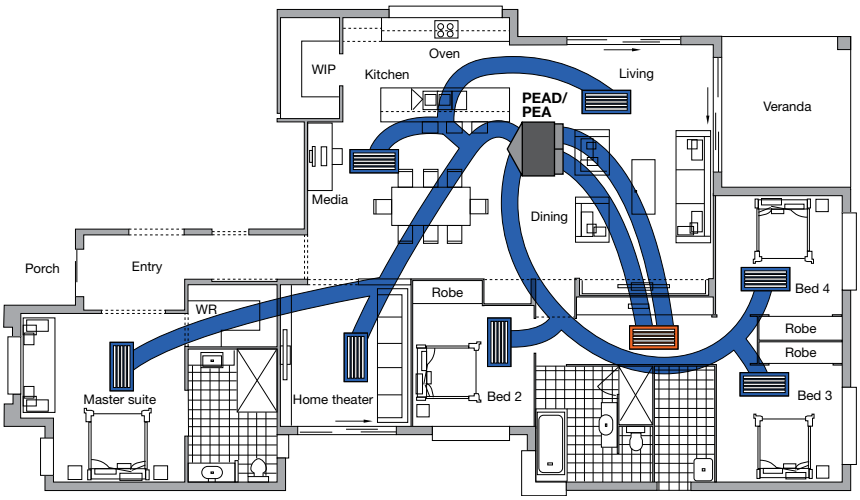
Zone Controller

PAC-ZC40/80L-E, PAC-ZC40/80H-E

Operation of up to 8 dampers. Occupancy and brightness sensors provide greater comfort while improving energy-saving performance.

Control Operation of up to 8 Dampers

By controlling the operation of up to eight dampers, excessive power consumption to condition unoccupied areas and areas where air conditioning is not needed can be prevented. Detailed control makes it possible to set operation to suit the user's needs.



LED Indicator

The LED indicator in the lower part of the controller clearly shows the operation mode. Easily confirm if the air conditioning is On or Off from a distance.

*Set to all green display before shipping.

Brightness sensor: If room light is on, energy-saving control is deactivated.

Occupancy Sensor: Judges whether or not someone is in the room by detecting human motion. If the room is unoccupied, air conditioning is switched to energy-saving mode.

Touch panel with backlight: A 4.3-inch touch-panel liquid-crystal screen with a backlight has been incorporated.

Temperature sensor: Monitors the temperature near the remote controller.

LED indicator: Indicates the operation mode or room temperature using colours.
*Setting is required.

Wi-Fi Compatibility

Can be operated from tablet, smartphone, etc.

Zone Controller

PAC-ZC 40H-E	240 Volt AC	4 zones (max.)
PAC-ZC 80H-E	240 Volt AC	8 zones (max.)
PAC-ZC 40L-E	24 Volt AC	4 zones (max.)
PAC-ZC 80L-E	24 Volt AC	8 zones (max.)

Optional Parts

Wi-Fi Control Interface	MAC-559IF-E
Remote Sensor	PAC-SE4ITS-E
Zone Remote Controller	PAR-ZC01M-E

Schedule Setting

- Built-in weekly schedule function can control turning the air conditioner on and off, and opening and closing of each damper. Up to eight patterns can be set for each week, enabling operation suitable for each time zone to be set.
- Night setback function is incorporated. If the room temperature is outside of the temperature range setting, heating or cooling operation starts automatically. This can prevent condensation or excessive temperature rise in the room.

Easy to See and Use

- A large, full-dot liquid-crystal screen is incorporated, simplifying touch panel operation.
- The backlight makes operation in dark rooms possible.

Main Screen

Zone Control Screen

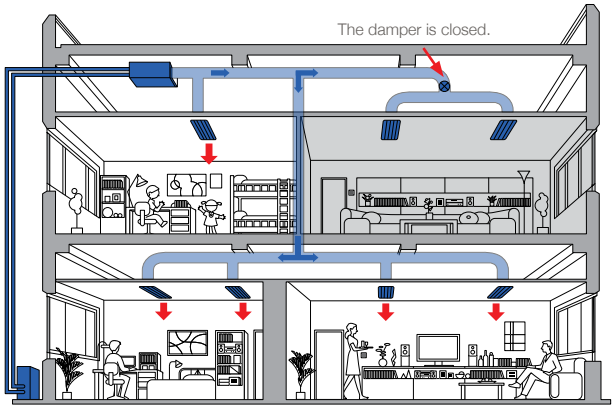
Actual size 120x140x25mm (HxWxD)

Occupancy and Brightness Sensors

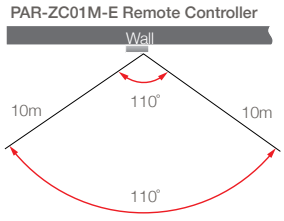
Occupancy sensors equipped with the controller can detect when you leave the room. By then automatically switching into energy-saving mode the Zone Controller turns the air conditioner off, leading to potential energy savings.

Brightness sensors detect when a room changes between and light, and dark and energy-saving mode can be enabled accordingly. Day and time settings combined with the brightness sensors can be used to automatically turn the air conditioner off when lights are switched off.

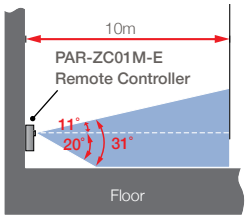
When "Zone Control" mode is selected among the energy-saving mode settings shown below.



Occupancy Sensor



Detection distance, right/left detection angle



Up/Down detection angle

Energy Saving Mode

Energy-Saving Mode settings can be selected (see table below)

Deactivate	Even if no one is detected, Energy Saving Mode is not set
Temperature setting slide	The slide to set desired temperature from presently set temperature
Reduce Airflow	Set airflow to "Low"
Operation/Stop	Stop operation
Zone control	Turn off target zone settings

PLA Series

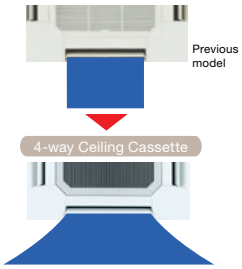
4-WAY CEILING CASSETTE

PLA-RP60/71/100/125/140BA

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.

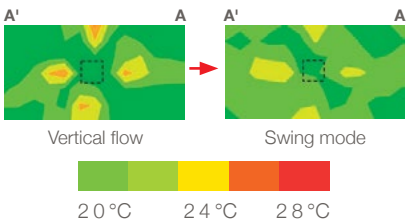


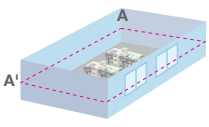
Wave Airflow Mode for Heating

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

Simultaneous horizontal and vertical operation ensure a comfortable room from corner to corner

Wave Controlled Effect Thermograph



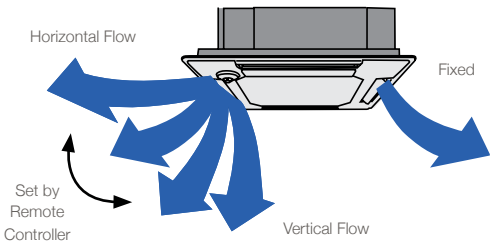


Independent Vane Direction Setting

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

Using wired remote controller, set airflow direction for each vane (manual setting also possible). *Wired remote controller (PAR-33MAA-J) has independent Vane Direction Setting. This function is only available when indoor unit connects with PUHZ Series.

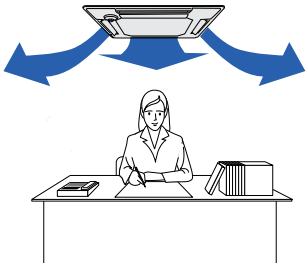
Settings can be changed at any time via a wired remote controller.



Less Cold Draft

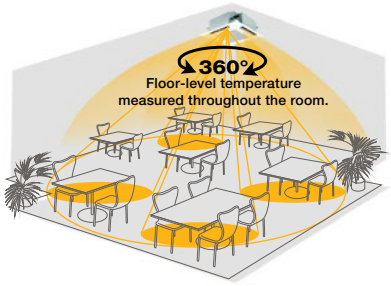
The horizontal airflow function prevents cold drafts from striking the body directly, thereby keeping the body temperature at a comfortable level.

Horizontal airflow prevents draughty feeling.



i-see Sensor

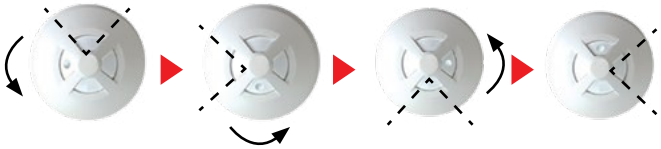
4-way cassettes can be equipped with the i-see Sensor that monitors floor-level temperatures throughout the room to ensure room comfort. (requires optional corner panel - PAC-SA1ME-E)



i-see Sensor improves energy efficiency and enhances room comfort (Optional)

The i-see Sensor is an innovative Mitsubishi Electric technology that monitors the temperature throughout the entire room. When connected to the air conditioner control panel, i-see Sensor works to ensure even temperature distribution and maximise room comfort through 360° sensing that covers the whole floor space.

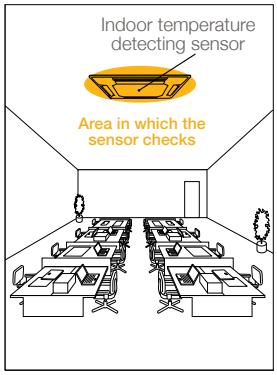
The i-see Sensor rotates 90° and takes 5-second measurements to accurately determine floor-level temperature on all sides of the room.



- 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° once every two minutes when there is significant temperature disparity and once every five minutes when a stable, even temperature has been reached.

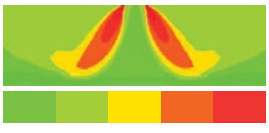
Without i-see Sensor

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



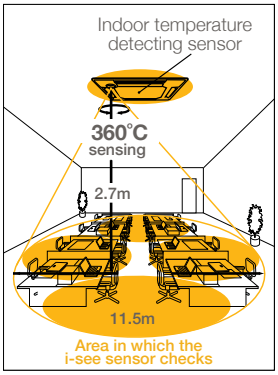
Heating

Set temperature: 23°C without i-see Sensor



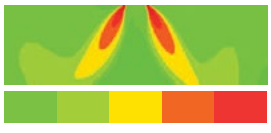
With i-see Sensor

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



Heating

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



"i-Feel" Temperature Control

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

Auto Fan Speed Mode

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

Fan speed setting by remote controller (four levels)

A special setting is required for wireless remote controller

Quiet Operation

An improved airflow path and powerful high capacity flow fan contribute to a quieter operation.

Power Flow Fan

"Pure White" Colour

Stylish, pure white-coloured panels and wired remote controller present 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

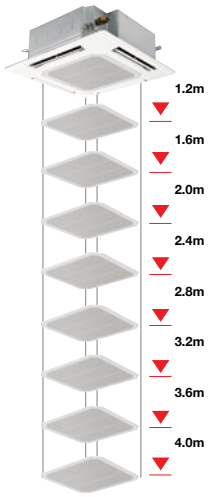
Automatic Grille Lowering Function (Optional)

Easy to use, simple to maintain. An automatic grille lowering function capable of stopping at eight different heights is available to simplify filter maintenance.

Wired remote controller (PAR-33MAA-J) has automatic grille lowering function.

This function is only available when indoor unit connects with PUHZ series.

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



Automatic elevation to four meters

PEAD Series

CEILING-CONCEALED

PEAD-RP71/100/125/140JAAD

The thin, ceiling-concealed PEAD Series units are the answer for buildings with limited ceiling installation space and wide-ranging external static pressure.

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-RP71-140JAAD

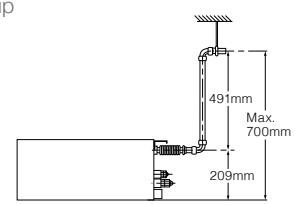
Height reduced by up to 178mm

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 allows for increased ease of installation.

Drainage Pump Installed as Standard

The drainage pump can lift water up to 700mm from the lower surface of the indoor unit's main body.



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.

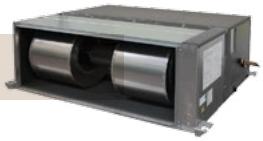
High Energy-Saving Efficiency

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

Capacity	Rated EER/COP	Previous PEA-RP	PEAD-RP	
7.1 kW	Rated EER	2.86	3.50	22% UP
	Rated COP	3.35	4.00	19% UP
10.0 kW	Rated EER	3.28	3.61	10% UP
	Rated COP	3.54	4.12	16% UP
12.5 kW	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

PEA Series

CEILING-CONCEALED

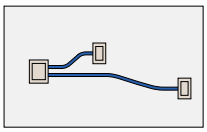


PEA-RP100/125/140GAA, PEA-RP170/200WJA/250WHA

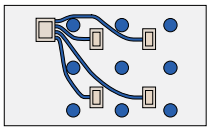
For elegance and style, the PEA Series compliments the room with aesthetically pleasing ceiling installation and a vast line-up of performance functions.

Freedom in Installation

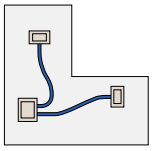
Versatile and easy installation is possible; for example, it is possible to adjust the distance between the air-intake and air-outlet vents to create the optimal airflow configuration.



Long rectangular room



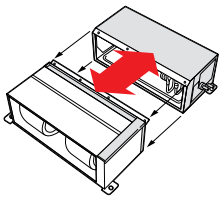
Room with fixed ceiling fixtures



L-shaped room

Easier Handling

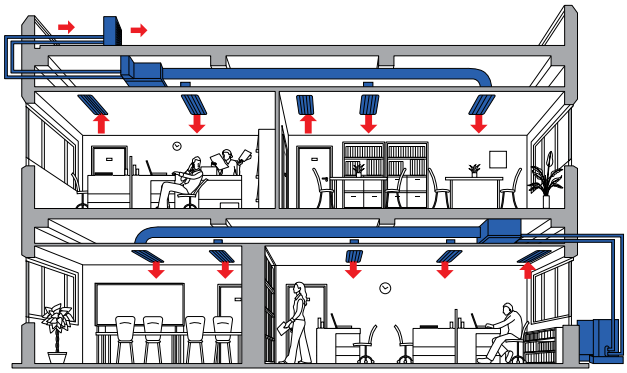
The new ducted fan coil unit (PEA-RP170/200/250) now has a two-piece construction. This allows separation of the indoor unit heat exchanger and the fan deck assembly for easier handling in the roof space.



Must be reassembled and installed prior to using the system.

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.



Computerised Dehumidification

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

PCA Series

CEILING-SUSPENDED

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

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

Stylish Indoor Unit Design

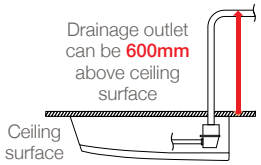
A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.

PCA-GA PCA-KA

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.

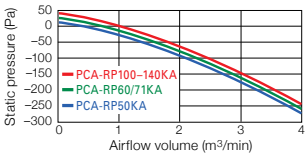
Drain Pump Installation Possible



Fresh Outside-Air Intake

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

Outside Air-Intake Characteristics

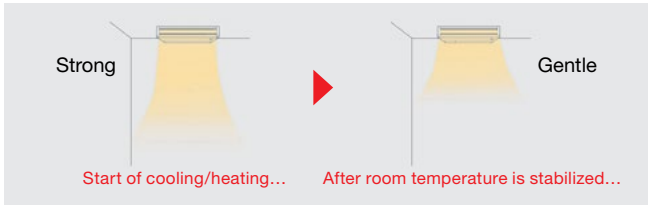


Equipped with Automatic Air-Speed Adjustment

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 cooling/heating operation, the airflow is set to high-speed to quickly cool/heat the room.

When the room temperature reaches the desired setting, the airflow speed is decreased automatically for stable comfortable cooling/heating 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 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

PKA Series

WALL-MOUNTED

PKA-RP71/100KAL

Elegant design and compact dimensions are ideal for offices and stores.

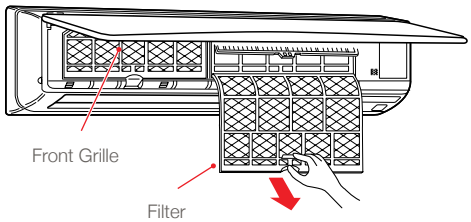
4-way Piping Provides More Flexibility in Selecting Installation Sites

Auto-Flap Shutter

Closing automatically when the air conditioner is off, therefore creating a flat surface that is aesthetically appealing.

Quick Clean Grille

The intake grille filter can easily slide out completely. This allows easy cleaning without any special tools.

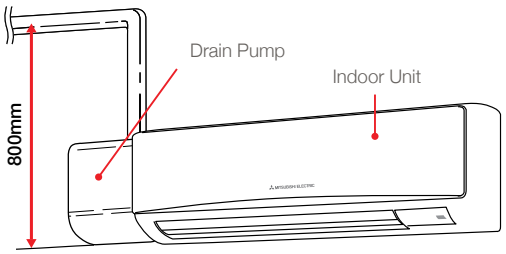


Wired Remote Controller Available (Optional)

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

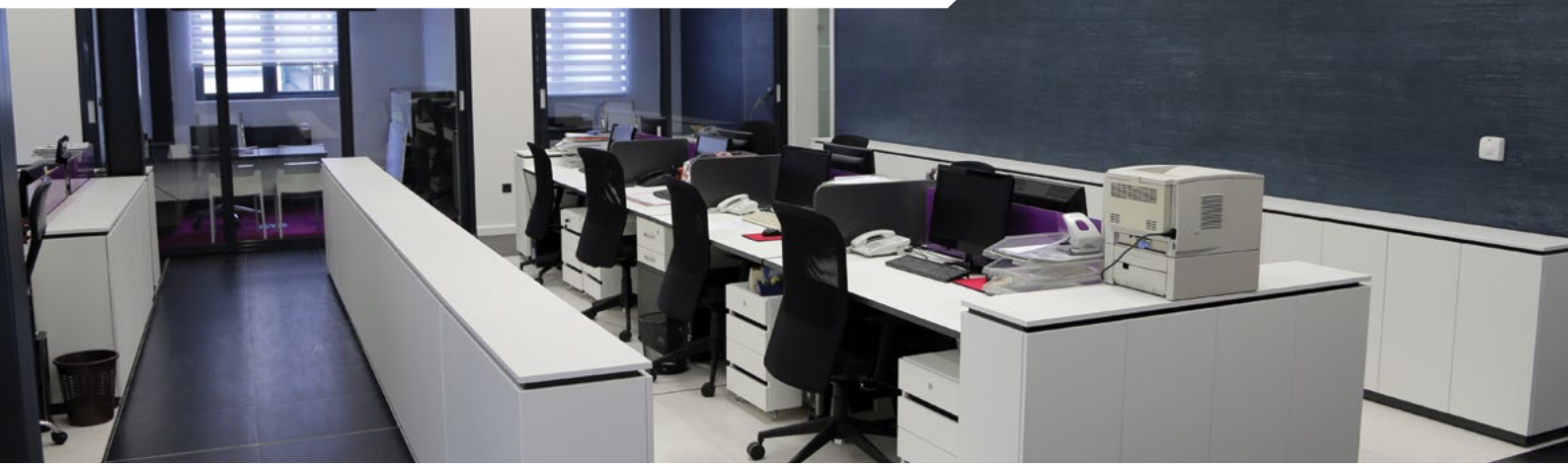
Drain Pump Option Available with All Models

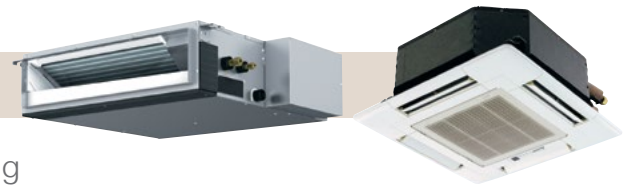
Installation of the drain pump enables a drain outlet as high as 800mm above the base of the indoor unit. Drain water can be discharged easily even if the surface where the wall-mounted unit does not have direct access outside, increasing the degree of freedom for installation.



SLZ/SEZ Series

4-WAY CEILING CASSETTE & COMPACT BULKHEAD





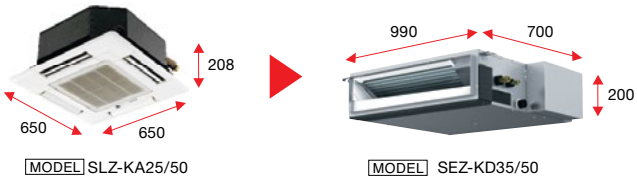
SEZ-KD25/35/50/60/71VAQ(L), SLZ-KA25/50VAQ(L)

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

Compact Designs

Models with capacity ranges for different room sizes. 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.

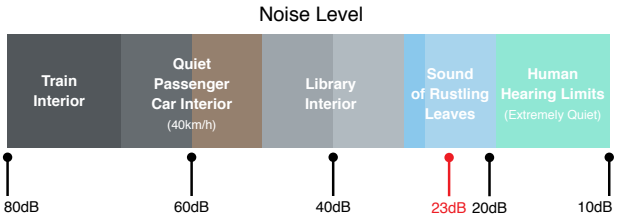
Dimension Comparison



Dimensions in mm

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 may find yourself checking to see if they're on.

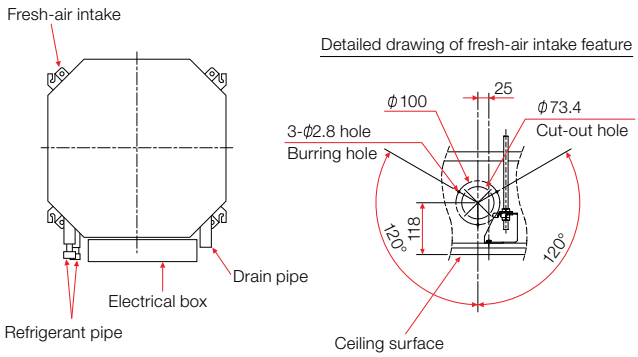


Air Cleaning Filter

This built-in filter removes dust and other particulates helping to keep the air clean. 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.



Mr. Slim Inverter Units

MAIN FEATURES

• Standard ○ Optional - Not Available

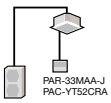
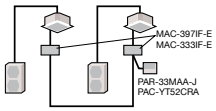
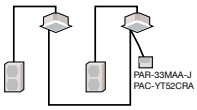
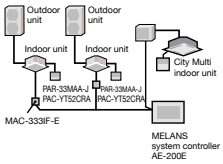
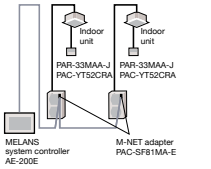
Combination	Indoor Unit	SLZ-VAQ	SLZ-VAL	SEZ-VAQ	SEZ-VAL	PLA		PEAD		PEA		PKA	PCA-KAQ	
	Outdoor Unit	SUZ	SUZ	SUZ	SUZ	*7 PUHZ	SUZ	*7 PUHZ	SUZ	*7 PUHZ-KA	PUHZ-YKM *7	*7 PUHZ	*7 PUHZ	SUZ
Energy Saving	Felt Temperature Control (i-see Sensor)	-	-	-	-	○	○	-	-	-	-	-	-	-
	Demand Function	○	○	○	○	●	○	●	○	●	● *4	●	●	○
Attractive	Pure White	●	●	-	-	●	●	-	-	-	-	●	●	●
	Auto Vane	●	●	-	-	●	●	-	-	-	-	●	●	●
Air Quality	Fresh-Air Intake	●	●	-	-	●	●	-	-	-	-	-	●	●
	High-Efficiency Filter	-	-	-	-	○	○	-	-	-	-	-	○	○
	Long-Life Filter	●	●	-	-	●	●	●	●	-	-	-	●	●
	Filter Check Signal	●	-	-	-	●	●	●	●	-	-	○	●	●
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	-	-	-	-	○	-	○	-	-	-	○	●	-
System Control	PAR-33MAA-J Control *2	○	-	○	○	○	○	○	○	○	○	○	○	○
	PAC-YT52CRA Control *2	○	-	○	○	○	○	○	○	○	○	○	○	○
	PAC-ZC40/80H (L)-E Control	-	-	-	-	-	-	○	○	○	○	-	-	-
	System Group Control *2	○	○	○	○	●	○	●	○	●	●	○	●	○
	M-NET Connection *2	○	○	○	○	○	○	○	○	○	●	○	○	○
Installation	Reuse of Existing Wiring	-	-	-	-	○	-	○	-	-	-	○	○	-
	Drain Pump	●	●	○	○	●	●	-	-	-	-	○	○	○
	Pump Down Switch	-	-	-	-	●	-	●	-	●	-	●	●	-
	Flare Connection	●	●	●	●	●	●	●	●	● *3	-	●	●	●
Maintenance	Self-Diagnosis Function (Check Code Display)	●	●	●	●	●	●	●	●	●	●	●	●	●
	Error History	●	●	●	●	●	●	●	●	●	● *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 to “System Control” on page 24 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.
*7 PUHZ-RP250 is excluded. PUHZ-RP·VHA5R1-A, PUHZ-RP·V/YKA2R1-A are only demand response capable with the demand function. Please contact Mitsubishi Electric Australia Pty. Ltd. for details.

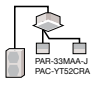
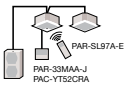
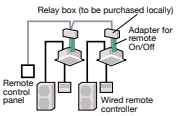
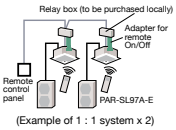
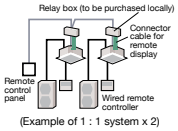
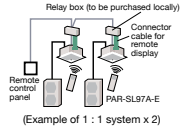
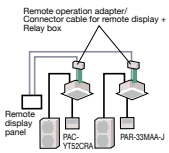
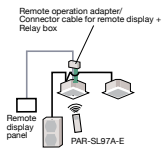
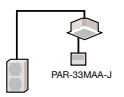
SYSTEM CONTROLS (SUZ and Mr. Slim Power Inverter only)

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-33MAA-J Control PAC-YT52CRA Control**			Standard equipment (for indoor units compatible with wired remote controllers)	• PAR-33MAA-J (Wired remote controller) • PAC-YT52CRA (Wired remote controller)
B	**System Group Control**			• One remote controller can control multiple air conditioners with the same settings simultaneously. • One remote controller can control up to 16 refrigerant systems. • Up to two remote controllers can be connected.	S Series Outdoor Unit • MAC-397IF-E/MAC-333IF-E (Interface) • PAR-33MAA-J (Wired remote controller) • PAC-YT52CRA (Wired remote controller) P Series Outdoor Unit • PAR-33MAA-J (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 P Series Outdoor Unit • PAC-SF83MA-E (M-NET converter) • MELANS System controller

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-33MAA-J, PAC-YT52CRA (for PKA, PAC-SH29TC-E is required) • Wireless Remote Controller PAR-SL97A-E (for SEZ and PLA-RP) • Wireless Remote Controller Kit for PCA PAR-SL948-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 ▶ 12V DC 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 72hr. 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-33MAA-J

MAIN FEATURES OF MR. SLIM INVERTER UNITS

Outdoor Unit						
		SUZ-KA25VAD	SUZ-KA35VAD	SUZ-KA50VAD	SUZ-KA60VAD	SUZ-KA71VAD
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) (L/S)		568/534	551	817	960/816	950/800
Sound Pressure Level (dB)	Cooling Mode	46	47	53	55	
	Heating Mode	46	48	55	55	
Sound Power 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) (L/S)		1,000	1,830	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 Power 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 (A) (cooling/heating)		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

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.

*Above specifications are for outdoor units only.

SPECIFICATIONS

Outdoor Units

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) (L/S)		2,330	2,330	2,917
Sound Pressure Level (dB)	Cooling Mode	58	58	58
	Silent Mode	56	56	48
	Heating Mode	59	59	58
Sound Power 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 on All Specifications

Rating conditions (AS/NZS 3823)

Cooling	Indoor:	27°C DB, 19°C WB
	Outdoor:	35°C DB
Heating	Indoor:	20°C DB
	Outdoor:	7°C DB, 6°C WB

Refrigerant piping length (one-way): 5m
For PUHZ-RP250YKM: 7.5m

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	46°C
	Lower Limit (DB)	-10°C	-15°C	-15°C	-5°C (-15°C)*	-5°C
Heating	Upper Limit (DB)	24°C	24°C	24°C	21°C	15.5°C (WB)
	Lower Limit (DB)	-15°C	-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.

SPECIFICATIONS

Outdoor Units

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-RP 71/100/125/140/170/200
Centralised 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-RP 71/100/125/140KAQ
	PAC-SH85DM-E	PCA-RP60KAQ
	PAC-KE07DM-E	SEZ-KD
Drain Socket	PAC-SG61DS-E	PUHZ-RP 71/100/125/140/170/200
Flange for Fresh-Air Intake	PAC-SH65OF-E	PLA-RP
Liquid Refrigerant Dryer for Pipe Ø9.52	PAC-SG82DR-E	PUHZ-RP
Wi-Fi Interface	MAC-559IF-E	All indoor units (excluding PEA-RP250WHA)
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, PEA-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, PEA-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
High Efficiency Filter Element	PAC-SH59KF-E	PLA-RP

Part Name		Model Name	Application Name
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	PAC-SG73RJ-E	PUHZ-RP 71/100/125/140/170/200
	15.88-19.05	PAC-SG75RJ-E	PUHZ-RP 71/100/125/140
M-Net Converter		PAC-SF83MA-E	PUHZ-RP 71/100/125/140/170/200
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, PEA-RP
		PAC-SH52HR-E	PLA-RP
Remote On/Off Adapter		PAC-SE55RA-E	All indoor units
Remote Operation Adapter		PAC-SF40RM-E	All indoor units*2 (excluding PKA-RP)
Remote Sensor		PAC-SE41TS-E	All indoor units (excluding PEA-RP•GAA)
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 Control		PAR-33MAA-J	All indoor units (excluding SLZ-VAL and SEZ-VAL)
		PAC-YT52CRA	All indoor units (excluding SLZ-VAL and SEZ-VAL)
Zone Controller (Interface & Remote Controller)		PAC-ZC40H-E	PEAD-RP, PEA-RP
		PAC-ZC80H-E	
		PAC-ZC40L-E	
		PAC-ZC80L-E	
Zone Remote Controller		PAC-ZC01M-E	PEAD-RP, PEA-RP
Wireless Remote Controller Kit (Sender & Receiver)		PAR-SL94B-E	PCA-RP
Power Supply Unit		PAC-SC50KUA	All outdoor units
Multiple Remote Controller Adapter		PAC-72SAD	All indoor units
Interface For DRED		DRC-101A	SUZ-KA•VAD

*1 P Series indoor units can be used in combination with SUZ outdoor units.

*2 Unable to use with wireless remote controller.

SPECIFICATIONS

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: ø 6.35	t 0.8
			Gas: ø 9.52	t 0.8
SUZ-KA35	12	20	Liquid: ø 6.35	t 0.8
			Gas: ø 9.52	t 0.8
SUZ-KA50	30	30	Liquid: ø 6.35	t 0.8
			Gas: ø 12.7	t 0.8
SUZ-KA60	30	30	Liquid: ø 6.35	t 0.8
			Gas: ø 15.88	t 1.0
SUZ-KA71	30	30	Liquid: ø 9.52	t 0.8
			Gas: ø 15.88	t 1.0
PUHZ-RP71	30	50	Liquid: ø 9.52	t 0.8
			Gas: ø 15.88	t 1.0
PUHZ-RP100/125/140	30	75	Liquid: ø 9.52	t 0.8
			Gas: ø 15.88	t 1.0
PUHZ-RP170/200	30	75	Liquid: ø 9.52	t 0.8
			Gas: ø 25.4	t 1.0
PUHZ-RP250	30	75	Liquid: ø 9.52	t 0.8
			Gas: ø 22.2	t 1.0

SPECIFICATIONS

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 x (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 x (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 x (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 when calculating the amount of additional charging and charge the system accordingly.
- If the calculation results in a fraction of less than 0.1kg, round up to the next 0.1kg.
  For example, if the result of the calculation was 11.38kg, round the result up to 11.4kg.

Additional Charge

Additional refrigerant charge		Liquid pipe size Total length of ø9.52x0.06	
(kg)	=	(m) x 0.06(kg/m)	+ 3.0kg

Factory Charge: 9kg

SPECIFICATIONS

4-way Ceiling Cassette (PLA Series)													
Indoor Unit			PLA-RP60BA		PLA-RP71BA		PLA-RP71BA		PLA-RP100BA		PLA-RP125BA		PLA-RP140BA	
Outdoor Unit			SUZ-KA60VAD		SUZ-KA71VAD		PUHZ-RP71VHA5		PUHZ-RP100/YKA2		PUHZ-RP125/YKA2		PUHZ-RP140/YKA2	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min-max)		(kW)	6.1 (2.3-6.3)	6.9 (2.5-8.0)	7.1 (2.8-8.1)	8.0 (2.6-10.2)	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)		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.

*SUZ-KA·VAD is potentially demand response capable unit. DRC-101A is required.

Sound Pressure Level

Sound pressure measurements were conducted in an anechoic chamber.

Ceiling-Concealed (PEAD Series)												
Indoor Unit			PEAD-RP71JAAD		PEAD-RP71JAAD		PEAD-RP100JAAD		PEAD-RP125JAAD		PEAD-RP140JAAD	
Outdoor Unit			SUZ-KA71VAD		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 (2.8-8.1)	8.0 (2.6-10.2)	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	
Power Supply			V: Single-phase, 50Hz, 230V Y: Three-phase, 50Hz, 400V									
Airflow (Lo-Mid-Hi)		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)	1,058x210				1,358x210		1,358x210		1,558x210	
Supply Air Spigot Size		(mm)	1,060x178				1,360x178		1,360x178		1,560x178	
Dimensions	Height	(mm)	250									
	Width	(mm)	1,100				1,400				1,600	
	Depth	(mm)	732									
Weight		(kg)	30				39		40		44	

*MEPS compliant at part load.

*SUZ-KA·VAD is potentially demand response capable unit. DRC-101A is required.

Sound Pressure Level

Sound pressure measurements were conducted in an anechoic chamber.

SPECIFICATIONS

Ceiling-Concealed (PEA Series)

Indoor Unit			PEA-RP100GAA		PEA-RP125GAA		PEA-RP140GAA		PEA-RP170WJA		PEA-RP200WJA		PEA-RP250WHA	
Outdoor Unit			PUHZ-RP100V/YKA2		PUHZ-RP125V/YKA2		PUHZ-RP140V/YKA2		PUHZ-RP170V/YKA2		PUHZ-RP200V/YKA2		PUHZ-RP250/YKM	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min-max)		(kW)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	13.5 (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)	2.60	2.51	3.97	3.27	4.19	3.90	5.00	6.00	5.92	6.89	6.11	6.89
Rated EER/COP		*1	3.85	4.46	3.15	4.28	3.22	4.10	3.20	3.33	3.19	3.25	3.60	3.62
Rated AEER/ACOP			3.54/3.51	4.11/4.07	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)		L/S	560-700		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)	39-42		42-45				38-41-44				40-43-46	
Return Air Spigot Size		(mm)	1,102x330						1,110x420					
Supply Air Spigot Size		(mm)	921x250						1,100x340					
Dimensions	Height	(mm)	400						470					
	Width	(mm)	1,400						1,370					
	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 part load.

Sound Pressure Level

*3 Sound Pressure Level for PEA-RP125/140GAA are measured in an anechoic chamber at ESP 50Pa.
Sound Pressure Level for PEA-RP170/200WJA/250WHA are measured in an anechoic chamber at ESP 150Pa.

Ceiling-Suspended (PCA Series)

Indoor Unit			PCA-RP50KAQ		PCA-RP60KAQ		PCA-RP71KAQ		PCA-RP71KAQ		PCA-RP100KAQ		PCA-RP125KAQ		PCA-RP140KAQ	
Outdoor Unit			SUZ-KA50VAD		SUZ-KA60VAD		SUZ-KA71VAD		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 (2.3-5.6)	5.5 (1.7-7.2)	5.7 (2.3-6.3)	6.9 (2.5-8.0)	7.1 (2.8-8.1)	7.9 (2.6-10.2)	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 %)		*1 *2											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)		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		*3 (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	

*1 MEPS compliant at part load.

*2 SUZ-KA•VAD is potentially demand response capable unit. DRC-101A is required.

Sound Pressure Level

*3 Sound pressure measurements were conducted in an anechoic chamber.

SPECIFICATIONS

Wall-Mounted (PKA Series)						
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)		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			

Sound Pressure Level
Sound pressure measurements were conducted in an anechoic chamber.

4-way Cassette / Compact Bulkhead (SLZ/SEZ Series)															
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-KA25VAD		SUZ-KA50VAD		SUZ-KA25VAD		SUZ-KA35VAD		SUZ-KA50VAD		SUZ-KA60VAD		SUZ-KA71VAD	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min-max)		(kW)	2.3 (1.5-3.2)	3.1 (1.3-4.5)	4.2 (2.3-5.2)	4.5 (1.7-6.5)	2.5 (1.5-3.2)	3.0 (1.3-4.5)	3.7 (1.4-3.9)	4.2 (1.7-5.0)	5.1 (2.3-5.6)	6.4 (1.7-7.2)	5.6 (2.3-6.3)	7.4 (2.5-8.0)	6.5 (2.8-8.3)	8.1 (2.6-10.4)
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, 50 Hz, 230V													
Airflow (Lo-Mid-Hi)		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)	-				660x150		860x150				1,060x150			
Dimensions	Height	(mm)	Unit: 235, Panel: 20				200		200				200			
	Width	(mm)	Unit: 570, Panel: 650				790		990				1,190			
	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.
*SUZ-KA•VAD is potentially demand response capable unit. DRC-101A is required.

Sound Pressure Level
Sound pressure measurements were conducted in an anechoic chamber.

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

Simply contact your nearest Mitsubishi Electric Specialist today and you can find out all there is to know about how to enhance your living environment. Our specialists are fully qualified to give you all the right advice on which Mitsubishi Electric Air Conditioning System is right for you.

To locate your nearest Mitsubishi Electric Specialist go to our website
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They will determine whether a Compact Inverter System or a Power Inverter System best suits your needs, both in comfort and efficiency. You can either visit one of our Specialist's Showrooms, or they will happily arrange for one of their Consultants to come to your home. All Mitsubishi Electric Compact and Power Inverter Systems are MEPS (Minimum Energy Performance Standards) Compliant, so you can be sure that they will give you the performance and efficiency that they were designed to deliver.

Mitsubishi Electric Shizuoka Works acquired ISO90001 certification under Series 9000 of the International Standards Organisation (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.

⚠ 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. The buyer must ensure that the person and/or company who is install, service or repair the air conditioner has the necessary licences, qualifications and experience to perform the work. Suitable access for warranty and service is required.

Refer to conditions of warranty on the Mitsubishi Electric website. For future improvement, specifications, designs of product and availability are subject to change without notice.

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 may lead to a serious impediment to securing product safety.

* Specifications, designs and other content appearing in this brochure are current as at January 2015 and are subject to change without notice. Diagrams are representations for illustrative purposes only.

NOTES

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MITSUBISHI ELECTRIC

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