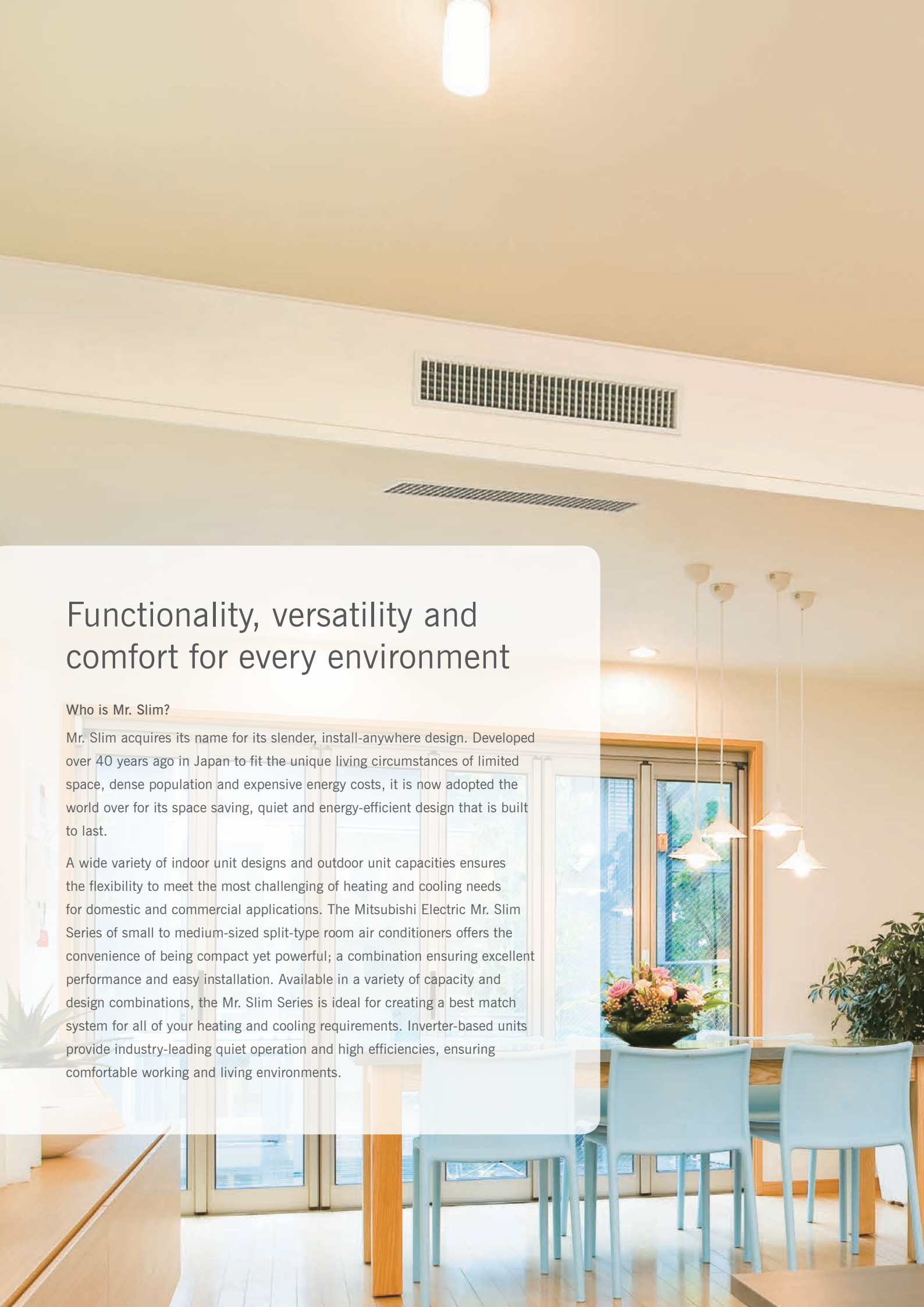


# Commercial Air Conditioning Systems

Designed for Efficiency



Functionality, Versatility and Comfort for Every Environment



## Functionality, versatility and comfort for every environment

### Who is Mr. Slim?

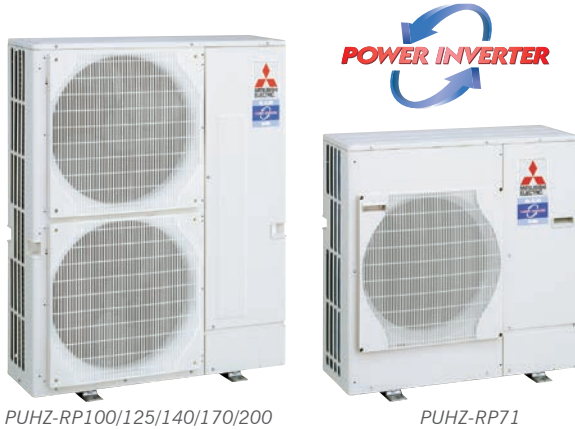
Mr. Slim acquires its name for its slender, install-anywhere design. Developed over 40 years ago in Japan to fit the unique living circumstances of limited space, dense population and expensive energy costs, it is now adopted the world over for its space saving, quiet and energy-efficient design that is built to last.

A wide variety of indoor unit designs and outdoor unit capacities ensures the flexibility to meet the most challenging of heating and cooling needs for domestic and commercial applications. The Mitsubishi Electric Mr. Slim Series of small to medium-sized split-type room air conditioners offers the convenience of being compact yet powerful; a combination ensuring excellent performance and easy installation. Available in a variety of capacity and design combinations, the Mr. Slim Series is ideal for creating a best match system for all of your heating and cooling requirements. Inverter-based units provide industry-leading quiet operation and high efficiencies, ensuring comfortable working and living environments.

# Designed for Efficiency

## Mitsubishi Electric's Power Inverter Systems Drastically Reduce Power Consumption

To better meet the needs of shops and offices, our outdoor units offer many energy saving features. Select the model to best match your needs from our expanded model range.

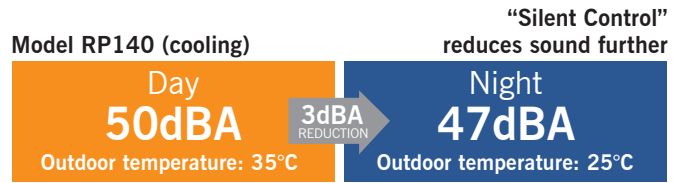


### Side-flow Outdoor Units

Outdoor units with operating capacities of up to 20kW have been unified to a side-flow configuration, providing greater versatility in installation locations. The compact footprint of these outdoor units also allows them to be used for applications requiring large capacity heating and cooling, where plant space is limited.

## Silent Control

Fan speed during cooling operation is automatically reduced when the outdoor temperature drops, resulting in quiet, low-noise operation. Operating noise is reduced by 3dBA.



|           | R22                | R410A                    |                |
|-----------|--------------------|--------------------------|----------------|
|           |                    | Inverter units (PUHZ-RP) |                |
|           | Non-inverter units | Normal                   | Low-noise Mode |
| 71 class  | 52 dBA             | 47 dBA                   | 44 dBA         |
| 100 class | 55 dBA             | 49 dBA                   | 46 dBA         |
| 125 class | 55 dBA             | 50 dBA                   | 47 dBA         |
| 140 class | 56 dBA             | 50 dBA                   | 47 dBA         |

## 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 |
| RP71                  | 30m                    | 50m                |
| RP100/125/140/170/200 | 30m                    | 75m                |

# High Power

## More Power for Faster Heating/Cooling

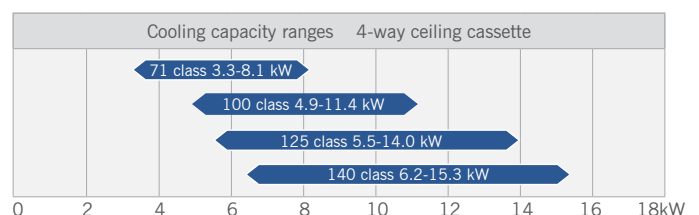
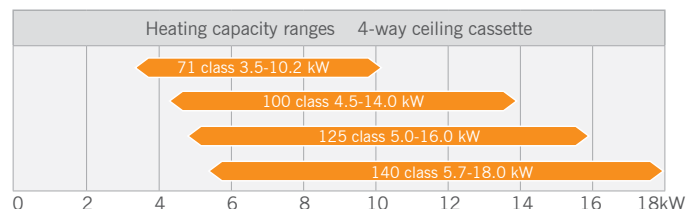
The maximum operating heating/cooling capacities of the Mr. Slim Power Inverter units have been improved (compared to conventional non-inverter models) when operating in either low or high outdoor temperatures.

|           | 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% |

|           | 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% |

## 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.





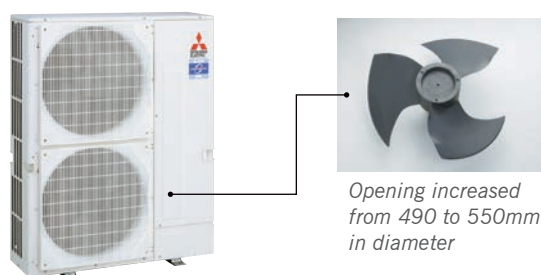
# Advanced Energy-saving Technologies

## Highly Efficient Fan and Grille for Outdoor Unit

Both the shape of the fan and grille in Mr. Slim Series outdoor units have been redesigned, helping increase airflow capacity and create a more efficient heat exchange, all while maintaining the same operating noise level.

### Outdoor Unit Fan Opening Increased (PUHZ-RP100~200)

The diameter of the outdoor unit fan opening has been increased from 490 to 550mm. As a result, airflow capacity has been increased while maintaining the same fan rotation speed.



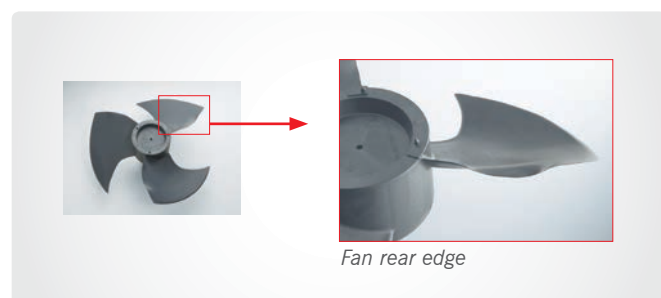
### Redesigned Grille Shape (PUHZ-RP100~200)

The shape of the air outlet grille has been redesigned to reduce pressure loss, in turn improving 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.

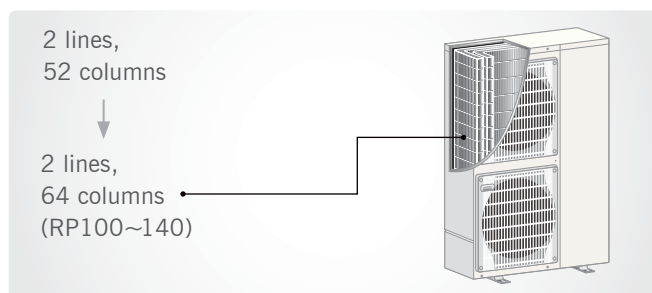


## Highly Efficient Heat Exchanger

Increasing both the density and surface area of Mr. Slim Series heat exchangers has led to an improvement in overall heat-exchange efficiency.

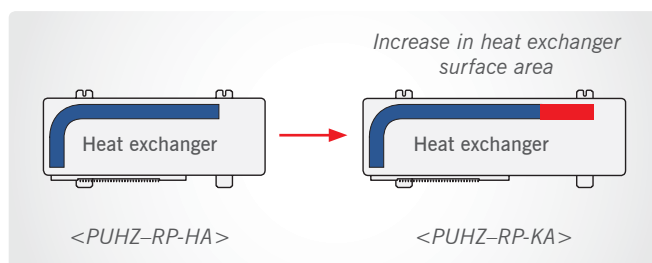
### High-density Heat Exchanger (PUHZ-RP100~200)

A reduction in pipe diameter from 9.52 to 7.94mm increases heat exchanger density. As a result greater heat exchange is realised.



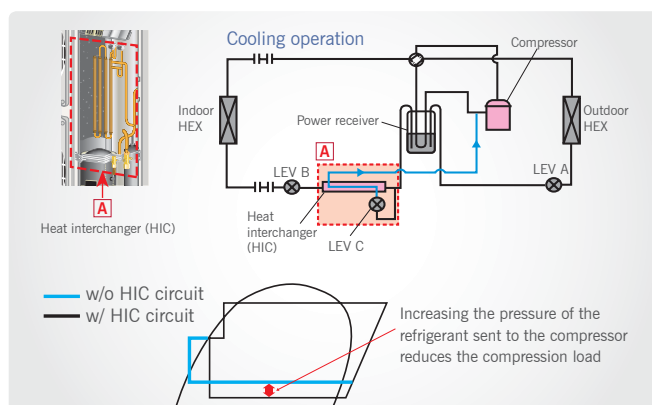
### Heat Exchange Surface Area Increased (PUHZ-RP100~200)

By extending the heat exchanger horizontally the total heat exchange surface area is increased, again resulting in greater overall heat exchange.



### Heat Interchanger (HIC) Added (PUHZ-RP140)

An HIC circuit has been added to improve energy efficiency during cooling operation. To achieve this, liquid refrigerant is rerouted, transformed into a gas state, and injected back into the system to increase the overall pressure of refrigerant being sent to the compressor. This results in reduced loading on the compressor and an overall increase in efficiency.

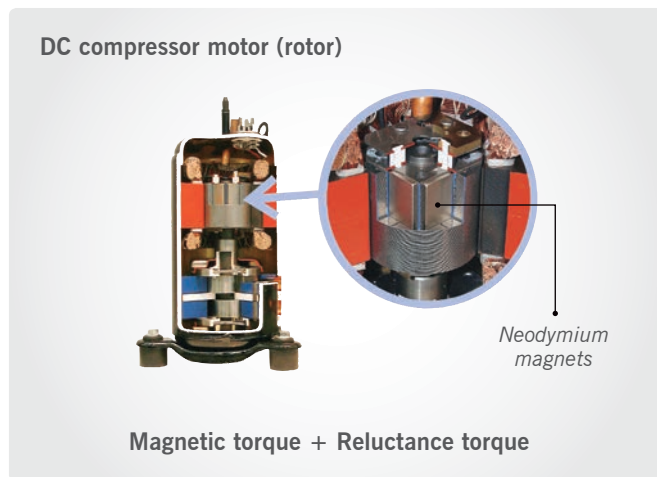


# Advanced Technology for High Efficiency

## Leading-edge Technology, High Efficiency Assured

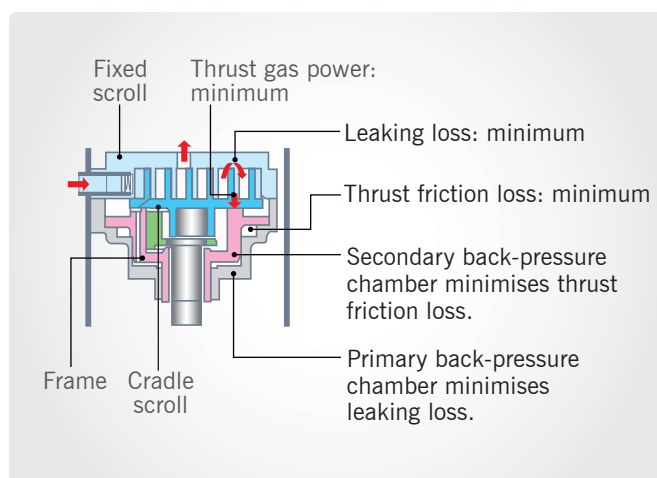
### Reluctance DC Rotary Compressor (PUHZ-RP71)

All reluctance DC motors in Mr. Slim PUHZ-RP71 outdoor units incorporate a rotor equipped with powerful neodymium magnets. The magnetic and reluctance torque produced by these magnets results in more efficient operation.



### Highly Efficient 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 extremely high efficiency at all speeds.



### DC Fan Motor

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

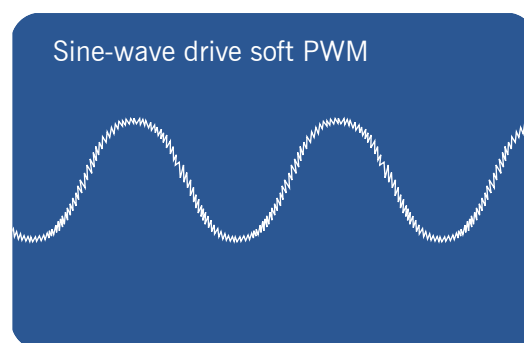
### Vector-wave Eco Inverter

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 moulding.

To ensure quiet operation, soft PWM (Pulse Width Modulation) control is used to prevent the metallic whine associated with conventional inverters.



### Power Receiver and Twin LEV Control

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.

# MA Touch Remote *PAR-CT01MAA*



## Full Colour Touch Panel 3.5" Display

Featuring a 3.5" HVGA Full Colour LCD screen

## Customisable Colour Options

180 different colour patterns can be selected for control parameters or background. A wide variety of colours are available to suit the décor of any room.

## Hotel Setting

A simple operation panel is available to display only ON/OFF, set temperature and fan speed – ideal for hotels.

## Logo Customisation

Your company logo or image can be displayed on the screen.

## Bluetooth Functionality

The controller can communicate with a smart phone or tablet device via Bluetooth. Operation and Setting App is available on the App Store.



PAR-CT01MAA

# MA Wired Wall Controller *PAR-31MAA*

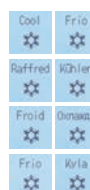
The PAR-31MAA is now easier to read thanks to the use of a full dot liquid-crystal display with backlight. Adoption of a menu format that has reduced the number of operating buttons has also ensured increased ease of use.

## Display Example [Operation Mode]

### Multi Language Display

Control panel operation in eight different languages

- English
- Spanish
- Italian
- German
- French
- Russian
- Portuguese
- Swedish



PAR-31MAA



# New Simple MA Remote Controller *PAC-YT52CRA*

## Backlit LCD

Liquid-crystal display (LCD) with backlight for operation in dark conditions.

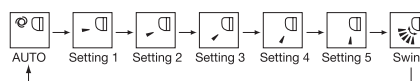
## Flat Back


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.



- Adjustable 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.



# Zone Controller *PAC-ZC40(H/L)-E/PAC-ZC80(H/L)-E*

The PAC-ZC40~80 Zone Controller brings expanded functionality and interaction to realise even greater energy savings. With the ability to control up to 8 zones\*, and equipped with automatic unloading/ramping and three built in sensor functions (temperature, occupancy, brightness), the Zone Controller brings intuitive, yet simple control to a whole new level.

## Also includes:

- Temperature Sensor
- Occupancy Sensor
- Brightness Sensor
- Backlit LCD Touch Screen
- Optional Wi-Fi Control



# Operation Control Functions *Energy Efficient Control: PAR-31 & PAC-ZC Only*

## Energy Saving Schedule

### Precise control of power consumption (PAR-31 Only)

Incorporating advanced Energy Saving Scheduling, the PAR-31MAA Wired Wall Controller allows complete energy management optimisation. System capacity can be adjusted (to 0, 50, 60, 70, 80 or 90% of maximum capacity) to reduce total energy consumption. Additionally, up to 4 start/finish patterns can be set per day to ensure optimal energy efficiency without compromising comfort.

#### Setting Pattern Example

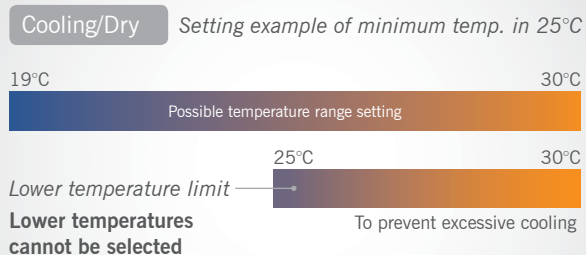
| Start Time |   | Finish Time | Adjusted Capacity Level |
|------------|---|-------------|-------------------------|
| 8:15       | > | 12:00       | 80%                     |
| 12:00      | > | 13:00       | 50%                     |
| 13:00      | > | 17:00       | 90%                     |
| 17:00      | > | 21:00       | 50%                     |

## 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.



Recommended for office, restaurant applications.

## 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 Restriction is in use.

## Night Setback

### Keep desired room temperatures automatically

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

## 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, halls, hospital, computer server facility.

## Auto-Off Timer

### Turns heating/cooling off automatically after preset time elapses

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

Recommended for meeting room, changing room applications.

## Weekly Timer

### Set up to 8 on/off patterns per day including temperature control

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

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

## Occupancy Sensor

Incorporating a built-in occupancy sensor, the Zone Controller (via the PAR-ZC01ME-E Wall Controller) constantly monitors the usable area to detect vacancy. Once detected, the Zone Controller uses internal functions to implement one of 4 user defined energy-save control options to reduce energy consumption; turn the unit on/off, lower the fan speed, temperature offset, or turn user designated zones on/off.

# Installation/Maintenance Support Functions

## Manual Vane Angle Setting

(4-way ceiling cassette)

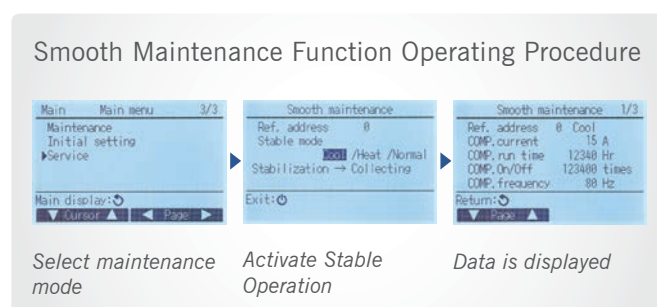
Direction of vertical airflow for each vane can be set

All Deluxe PLA Cassettes allow the vertical airflow direction for each individual vane to be manually adjusted/set. As a result, draughts can be minimised without compromising system performance. Seasonal settings such as switching between cooling and heating can be easily changed as well.

## Smooth Maintenance

Outdoor unit data can be accessed, enabling fast maintenance

Using 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.



## Display Information (11 items)

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

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

## Automatic Grille Lowering Operation

(Optional PLP-6BAJ)

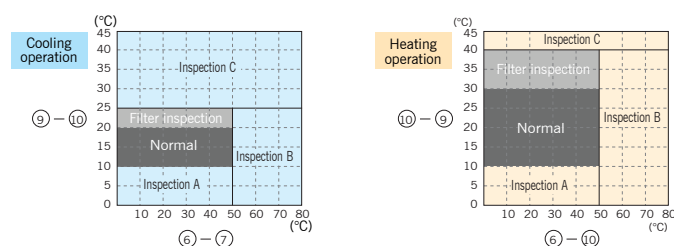
Easily raise/lower panels using the remote controller

In conjunction with the optional PLP-6BAJ grille, Automatic Grille Lowering function capable of stopping at eight different heights is available to simplify filter maintenance.

## Inspection Guidelines

Once Smooth Maintenance is completed a table of information is displayed. This information can then be manually plotted onto the two graphs (heating and cooling) to see if the unit is operating normally (according to Japanese standard conditions).

|                  | 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.



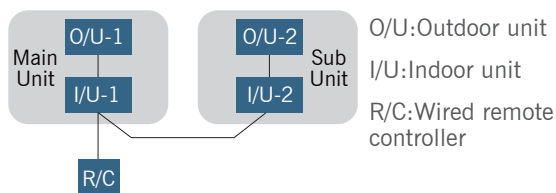
# Rotation, Back-Up and 2nd Stage Cut-In Functions

(PAR-32MAA)

## Rotation and Back-Up Functions

With the ability to set Rotation and/or Backup functionality, Mr. Slim Series systems are the perfect solution for future proofing your comfort. Setting main and sub units to take turns operating, according to a rotation interval setting, increases overall system longevity. Meanwhile setting the Back-Up function ensures automatic redundancy in the event of unit malfunction.

### System Image



## 2nd Stage Cut-In Function

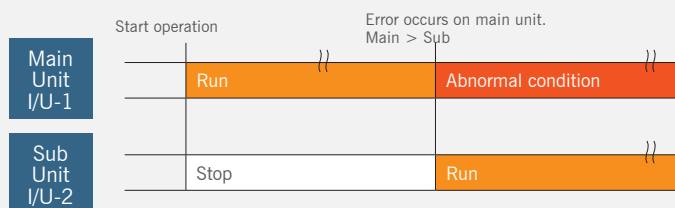
The 2nd Stage Cut-In function is perfect for applications where cooling load requirements fluctuate. As this load requirement increases above the desired setting, standby units are triggered into operation to ensure constant provision of the optimum level of comfort in the most energy efficient manner. Once the room temperature falls 4°C, 6°C, or 8°C below the predetermined setting, the standby unit ceases to operate to ensure excess cooling does not compromise comfort.

### System Constraint

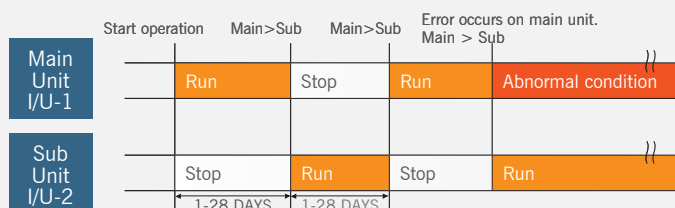
The 2nd Stage Cut-In function is only available in cooling mode.

## Operation Pattern

### Back-Up Function only



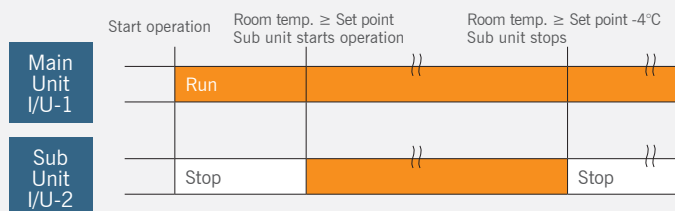
### Rotation Function & Back-Up Function



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

## Operation Pattern (when cooling)

### 2nd Stage Cut-In Function



## Easy Maintenance (Mr. Slim Power Inverter only)

Operation of Mr. Slim Power Inverters is almost maintenance-free. Now you can monitor operation data of the indoor and outdoor units via the PAR-31MAA Wired Wall Controller. This controller also lets you view the operating frequency, allowing easier inspection/diagnostics.



### Easy Maintenance Information



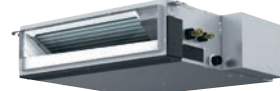









| Compressor |                                     | Indoor Unit |                                 | Outdoor Unit |                                 |
|------------|-------------------------------------|-------------|---------------------------------|--------------|---------------------------------|
| 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.

### Refrigerant Leakage Check (PUHZ-RP100~200)

All Mr. Slim Power Inverter units come equipped with a useful new "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.

# Product Line-Up

|                   | 4-WAY CEILING CASSETTE   |      | COMPACT BULKHEAD  |      | CEILING SUSPENDED  |      |  |      |
|-------------------|--|------|---|------|--|------|--|------|
|                   | SLZ  | p.18 | PLA   | p.12 | SEZ  | p.18 | PCA  | p.16 |
|                   |   |      |    |      |    |      |   |      |
| 2.5kW             | SLZ-KA25VAQ(L)   |      |   |      |  |      |  |      |
| 3.5kW             |  |      |   |      | SEZ-KD35VAQ  |      |  |      |
| 5.0kW             | SLZ-KA50VAQ(L)   |      |   |      | SEZ-KD50VAQ  |      | PCA-RP50KAQ  |      |
| 6.0kW             |  |      | PLA-RP60BA  |      | SEZ-KD60VAQ  |      | PCA-RP60KAQ  |      |
| 7.1kW             |  |      | PLA-RP71BA  |      | SEZ-KD71VAQ  |      | PCA-RP71HAQ<br>PCA-RP71KAQ   |      |
| 10.0kW            |  |      | PLA-RP100BA   |      |  |      | PCA-RP100KAQ   |      |
| 12.5kW            |  |      | PLA-RP125BA   |      |  |      | PCA-RP125KAQ   |      |
| 14.0kW            |  |      | PLA-RP140BA   |      |  |      | PCA-RP140KAQ   |      |
| 17.0kW            |  |      |   |      |  |      |  |      |
| 18.9kW            |  |      |   |      |  |      |  |      |
| Remote controller | Standard for SLZ-VAQ <br>Standard for SLZ-VAL  |      | Optional <br> |      | Standard for SEZ-VAQ <br><b>OPTIONAL</b>  <b>Wi-Fi CONTROL</b> |      | Standard <br>Optional  |      |

| CEILING CONCEALED  |      | WALL MOUNTED   |      | OUTDOOR UNIT  |      |   |  |
|--|------|--|------|---|------|---|--|
| PEAD   | p.14 | PEA  | p.15 | PKA   | p.17 | Outdoor Unit  |  |
|              |      |             |      |             |      |   |  |
|  |      |  |      |   |      | <br>SUZ-KA25VA       |  |
|  |      |  |      |   |      | <br>SUZ-KA35VA       |  |
|  |      |  |      |   |      | <br>SUZ-KA50VA      |  |
|  |      |  |      |   |      | <br>SUZ-KA60VA     |  |
| PEAD-RP71JAA   |      |  |      | PKA-RP71KAL*  |      | <br>SUZ-KA71VA     | <br>PUHZ-RP71VHA5 |
| PEAD-RP100JAA  |      | PEA-RP100GAA   |      | PKA-RP100KAL  |      | <br>PUHZ-RP100VKA2 |  |
| PEAD-RP125JAA  |      | PEA-RP125GAA   |      |   |      | <br>PUHZ-RP125VKA2 |  |
| PEAD-RP140JAA  |      | PEA-RP140GAA   |      |   |      | <br>PUHZ-RP140VKA2 |  |
|  |      | PEA-RP170WJA   |      |   |      | <br>PUHZ-RP170VKA2 |  |
|  |      | PEA-RP200WJA   |      |   |      | <br>PUHZ-RP200YKA2 |  |
| Optional  |      | Optional  |      | Optional  |      |   |  |
| OPTIONAL<br>Wi-Fi<br>CONTROL   |      | OPTIONAL<br>Wi-Fi<br>CONTROL   |      | Standard  |      |   |  |
|  |      |  |      | *PUHZ-RP71VHA only  |      |   |  |

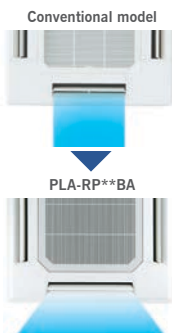
# Deluxe PLA Series Cassettes

## 4-Way Ceiling Cassette

Advancements in Deluxe PLA Series Cassettes improve style and performance for ensured indoor comfort

### Wide Airflow

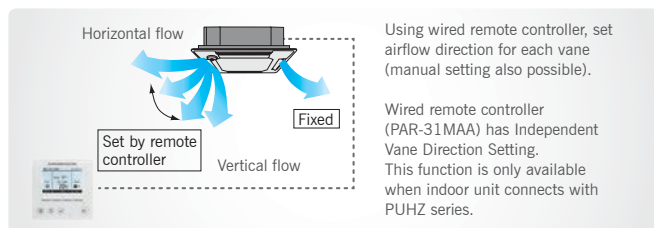
Deluxe PLA Series Cassettes utilise wide-angle outlets to distribute airflow to all corners of the room, ensuring the room is cooled/heated in an even and sufficient manner. Both horizontal airflow and fan speed have been reduced by 20% compared to conventional models, contributing to increased comfort for occupants.



### Independent Vane Direction Setting (P Series Outdoor only)

With the ability to independently control each vane's airflow pattern, Deluxe PLA Series Cassettes are perfect for both residential and office/commercial environments. Simply adjust airflow via the PAR-31MAA Wired Controller to suit the interior layout and seasonal conditions, ensuring even temperature distribution at all times.

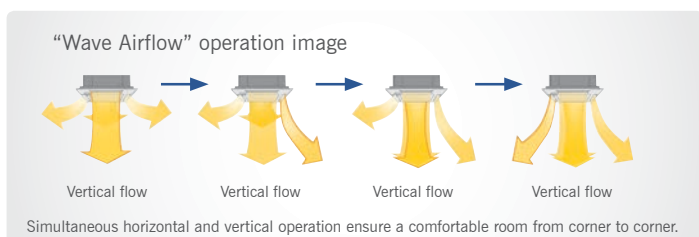
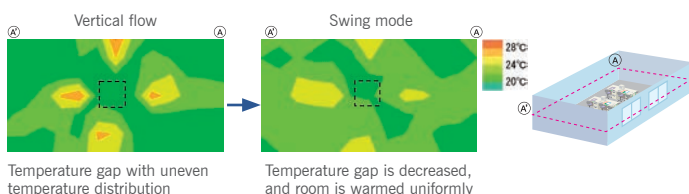
Settings can be changed anytime using a wired remote controller.



### Wave Airflow Mode for Heating

Advanced control of vanes, called Wave Airflow, provides even greater heat distribution by periodically moving vanes up and down to provide a consistent temperature throughout the room.

Wave control effect thermograph



### Less Cold Draught

The Horizontal Airflow function prevents both cold draughts and/or heating airflow from striking occupants directly, thereby keeping people from becoming over-chilled/over-heated.



### Auto Fan Speed Mode

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

### Fan speed setting by remote controller (four levels)



Special setting is required for wireless remote controller

### Quiet Operation

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



Power flow fan

### "Pure White" Colour

Stylish, pure white coloured panels and wired remote controller present a clean, streamlined installation 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 option available
- Duct flange for fresh-air intake
- Branch duct

### Automatic Grille Lowering Function (Optional)

Easy to use/simple maintenance.

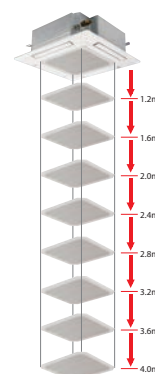
An automatic grille lowering function capable of stopping at eight different heights is available to simplify filter maintenance.

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



Elevating (up-down) controller

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



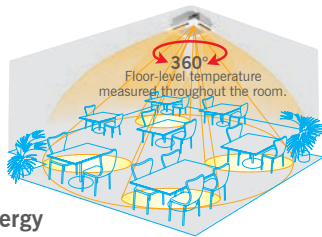
Automatic elevation to four metres





**Deluxe PLA 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.**

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

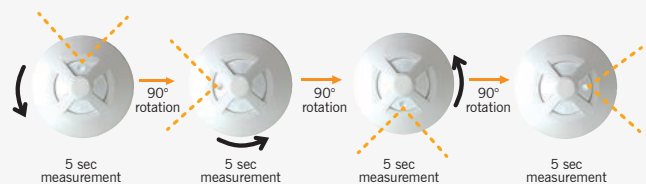


**i-See Sensor improves energy efficiency and enhances room comfort.**

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

### i-See Sensor Operation

The i-See Sensor rotates 90° every two minutes\*, taking 5-second measurements at each position 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.



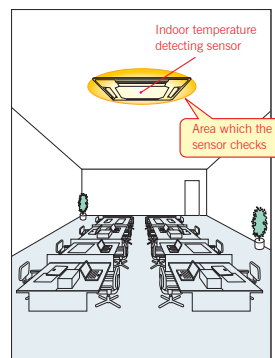
\*The sensor rotates 360 degrees once every two minutes when there is significant temperature disparity and once every five minutes when a stable, even temperature has been reached.

### “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.

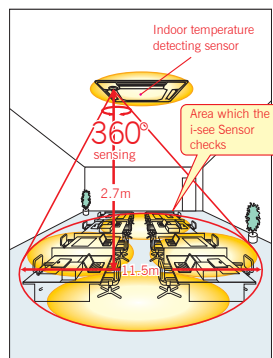
#### Without i-See Sensor

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



#### 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

| Specifications: 4-way ceiling-cassette (PLA) |        |                             |               |                       |                |                 |                |                      |                 |                 |                 |                    |                 |  |  |
|--|--------|-----------------------------|---------------|-----------------------|----------------|-----------------|----------------|----------------------|-----------------|-----------------|-----------------|--------------------|-----------------|--|--|
| Indoor unit                                  |        | PLA-RP60BA                  |               | PLA-RP71BA            |                | PLA-RP71BA      |                | PLA-RP100BA          |                 | PLA-RP125BA     |                 | PLA-RP140BA        |                 |  |  |
| Outdoor unit                                 |        | SUZ-KA60VAD                 |               | SUZ-KA71VAD           |                | PUHZ-RP71VHA5   |                | PUHZ-RP100VKA2       |                 | PUHZ-RP125VKA2  |                 | PUHZ-RP140VKA2     |                 |  |  |
| 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                                |        | 3.80                        | 3.99          | 3.46                  | 3.71           | 3.42            | 3.59           | 3.98                 | 3.74            | 3.25            | 3.71            | 3.35               | 3.55            |  |  |
| Rated AEER/ACOP                              |        | 3.73                        | 3.92          | 3.41                  | 3.66           | 3.24            | 3.42           | 3.65                 | 3.49            | 3.07            | 3.51            | 3.17               | 3.39            |  |  |
| AEER/ACOP (part-load %)*                     |        |                             |               |                       |                |                 |                |                      |                 | 4.13            |                 | 3.95               |                 |  |  |
| Indoor unit                                  |        | PLA-RP60BA                  |               | PLA-RP71BA            |                | PLA-RP71BA      |                | PLA-RP100BA          |                 | PLA-RP125BA     |                 | PLA-RP140BA        |                 |  |  |
| Power supply                                 |        | V: Single-phase, 50Hz, 230V |               |                       |                |                 |                |                      |                 |                 |                 |                    |                 |  |  |
| Airflow (Lo-Mid-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        |                 |  |  |
| 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

### Ceiling Concealed

The thin, low-profile, ceiling-concealed indoor units of the PEAD Series are the perfect answer for 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 further reductions in operating cost.

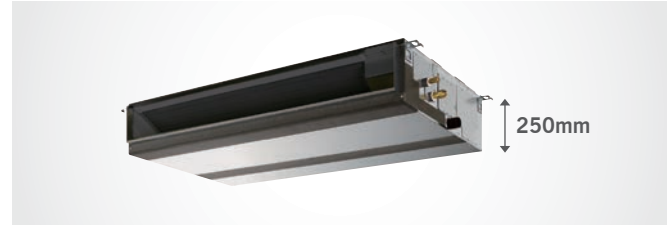
#### Compact Indoor Units

The height of the PEAD (7.1kW~14.0kW) models has been unified to 250mm. Compared to the PEA-RP\*\*\*GAA models, the height has been reduced by as much as 150mm, making installation possible in low ceilings with minimal clearance space.

#### High Energy-Saving Efficiency

Compared to the previous PEA-RP-EAQ (7.1kW~14.0kW) models, the 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 |            |
|----------|---------------|--------|---------|------------|
| 10.0kW   | Rated EER     | 3.24   | 3.90    | ▶ 20% UP   |
|          | Rated COP     | 3.50   | 3.25    | ▶ 08% DOWN |
| 12.5kW   | Rated EER     | 2.92   | 3.38    | ▶ 17% UP   |
|          | Rated COP     | 3.89   | 4.15    | ▶ 07% UP   |
| 14.0kW   | Rated EER     | 2.85   | 3.29    | ▶ 15% UP   |
|          | Rated COP     | 3.74   | 4.08    | ▶ 09% UP   |



#### Lighter Weight

Compared to the previous PEA-RP-EAQ (7.1kW~14.0kW) models, the 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

All PEAD models incorporate five-stage external static pressure conversions and three fan speed selections, offering the ultimate in comfort diversity. With a wide range of adjustable static pressures (35-125Pa), PEAD Series units are applicable to a wide range of building types and applications.

#### Zone Controller (Optional)



The optional Zone Controller brings intuitive yet simple control to a whole new level, with the ability to control up to 8 zones, automatic unloading/ramping and energy saving sensor functions. Find out more about this controller on page 6.

| Specifications: Ceiling-concealed (PEAD) |        |                             |                |                 |                 |                 |                 |                 |                 |  |
|--|--------|-----------------------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| Indoor Unit                              |        | PEAD-RP71JAA                |                | PEAD-RP100JAA   |                 | PEAD-RP125JAA   |                 | PEAD-RP140JAA   |                 |  |
| Outdoor Unit                             |        | SUZ-KA71VAD                 |                | PUHZ-RP100VKA2  |                 | PUHZ-RP125VKA2  |                 | PUHZ-RP140VKA2  |                 |  |
| Function (kW)                            |        | Cooling                     | Heating        | Cooling         | Heating         | Cooling         | Heating         | Cooling         | Heating         |  |
| Capacity (min.-max.)                     | (kW)   | 7.1 (0.9-8.1)               | 8.0 (0.9-10.2) | 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                                    |        | 2.10                        | 2.04           | 2.77            | 2.72            | 3.60            | 3.50            | 3.91            | 4.04            |  |
| Rated EER/COP                            |        | 3.38                        | 4.14           | 3.90            | 4.53            | 3.38            | 4.15            | 3.29            | 4.08            |  |
| Rated AEER/ACOP                          |        | 3.33                        | 4.08           | 3.60            | 4.17            | 3.18            | 3.90            | 3.12            | 3.86            |  |
| Indoor Unit                              |        | PEAD-RP71JAA                |                | PEAD-RP100JAA   |                 | PEAD-RP125JAA   |                 | PEAD-RP140JAA   |                 |  |
| Power Supply                             |        | V: Single-phase, 50Hz, 230V |                |                 |                 |                 |                 |                 |                 |  |
| Airflow                                  | 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            |                 |                 |                 |                 |                 |                 |  |
|  | Width  | (mm)                        | 1,100          |                 | 1,400           |                 |                 |                 | 1,600           |  |
|  | Depth  | (mm)                        | 732            |                 |                 |                 |                 |                 |                 |  |
| Weight                                   |        | (kg)                        | 29             |                 | 38              |                 | 39              |                 | 43              |  |

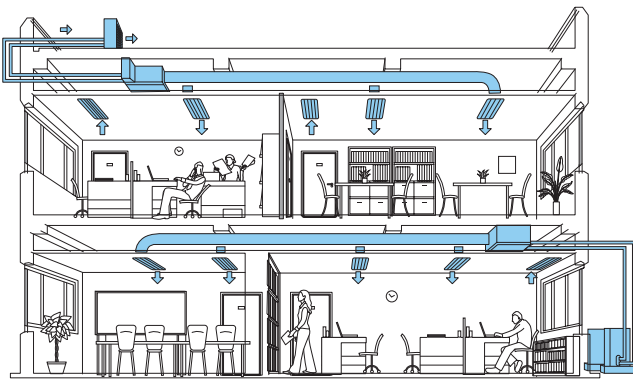
## PEA Series

### Ceiling Concealed

The PEA Series high static airflow allows air to be directed to different areas of your home or office with ease, ideal for heating or cooling a number of rooms at once.

#### Flexible Duct Design Enables Use of High-Pressure Static Fan

With a maximum 150Pa external static high-pressure setting, PEA Series models offer complete flexibility in duct design. The increased variation in airflow options ensures operation that best matches virtually all room layouts.



#### Zone Controller (Optional)

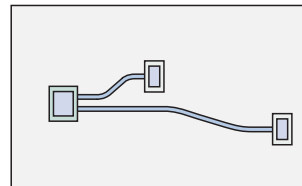


The optional Zone Controller brings intuitive yet simple control to a whole new level, with the ability to control up to 8 zones, automatic unloading/ramping and energy saving sensor functions. Find out more about this controller on page 6.

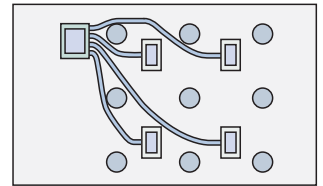


#### Versatile and Easy Installation Options

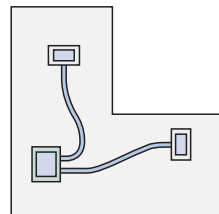
PEA Series models offer both versatility and ease of installation/application; for example, it is possible to adjust the distance between the air-intake and air-outlet vents to create the optimal airflow configuration.



Long rectangular room

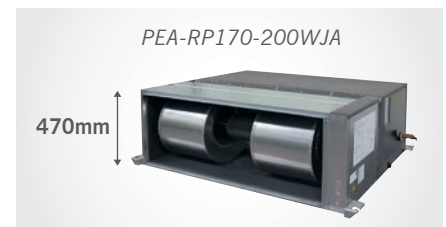


Room with fixed ceiling fixtures



L-shaped room

| Specifications: Ceiling-concealed (PEA) |                     |                          |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|---|---------------------|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Indoor Unit                             |                     | PEA-RP100GAA             |                 | PEA-RP125GAA    |                 | PEA-RP140GAA    |                 | PEA-RP170WJA    |                 | PEA-RP200WJA    |                 |
| Outdoor Unit                            |                     | PUHZ-RP100VKA2           |                 | PUHZ-RP125VKA2  |                 | PUHZ-RP140VKA2  |                 | PUHZ-RP170VKA2  |                 | PUHZ-RP200VKA2  |                 |
| Function                                | (kW)                | 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) |
| Input                                   |                     | 3.05                     | 3.16            | 3.97            | 3.27            | 4.19            | 3.90            | 5.00            | 6.00            | 5.66            | 6.17            |
| Rated EER/COP <sup>*1</sup>             |                     | 3.96                     | 4.47            | 3.27            | 4.30            | 3.23            | 4.14            | 3.64            | 3.84            | 3.28            | 3.59            |
| Rated AEER/ACOP                         |                     | 3.65                     | 4.12            | 3.10            | 4.04            | 3.07            | 3.93            | 3.47            | 3.69            | 3.12            | 3.43            |
| Power Supply                            |                     | Single-phase, 50Hz, 230V |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Airflow                                 | m <sup>3</sup> /min | 34-42                    |                 | 48-60           |                 | 50-61-72        |                 | 833-1017-1200   |                 |                 |                 |
|   | L/S                 | 560-700                  |                 | 800-1000        |                 |                 |                 |                 |                 |                 |                 |
| Sound Pressure Level <sup>*2</sup>      |                     | 39-42                    |                 | 42-45           |                 | 38-41-44        |                 |                 |                 |                 |                 |
| Dimensions (mm)                         | Height              | 400                      |                 | 470             |                 | 1120            |                 |                 |                 |                 |                 |
|   | Width               | 1400                     |                 | 1370            |                 |                 |                 |                 |                 |                 |                 |
|   | Depth               | 634                      |                 | 1120            |                 |                 |                 |                 |                 |                 |                 |
| Weight (indoor)                         |                     | 63                       |                 | 108             |                 |                 |                 |                 |                 |                 |                 |



<sup>\*1</sup> Rated EER/COP for PEA-RP170WJA are measured at ESP 75 Pa  
<sup>\*2</sup> Sound pressure level for PEA-RP170WJA are measured in anechoic chamber at ESP 150 Pa

# PCA Series

## Ceiling Suspended

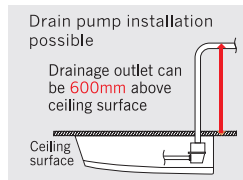
PCA Series high performance units are designed for style and efficiency. A stylish indoor unit design and airflow settings for both high and low-ceiling interiors expand installation possibilities. With four speed settings and auto air-speed adjustment, PCA Series units provide energy efficient comfort no matter what the season.

### Stylish Indoor Unit Design

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

### Optional Drain Pump

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



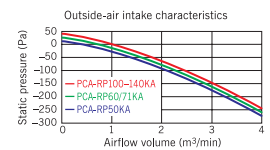
### Equipped with Automatic Air-Speed Adjustment

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 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

All PCA Series 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 |
|-----------|--------------|------------------|-------------|
| PCA-RP50  | 3.5m         | 2.7m             | 2.5m        |
| PCA-RP60  | 3.5m         | 2.7m             | 2.5m        |
| PCA-RP71  | 3.5m         | 2.7m             | 2.5m        |
| PCA-RP100 | 4.2m         | 3.0m             | 2.6m        |
| PCA-RP125 | 4.2m         | 3.0m             | 2.6m        |
| PCA-RP140 | 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    |                 | PCA-RP71HAQ   |                          |     |
| Outdoor unit                            |        | SUZ-KA50VAD                 |                 | SUZ-KA60VAD   |                 | SUZ-KA71VAD   |                 | PUHZ-RP71VHA5 |                 | PUHZ-RP100VKA2  |                 | PUHZ-RP125VKA2  |                 | PUHZ-RP140VKA2  |                 | PUHZ-RP71VHA5 |                          |     |
| Function                                |        | Cooling                     | Heating         | 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) | 7.1 (3.3-8.1) | 7.6 (3.5-10.2)           |     |
| Input                                   | (kW)   | 1.49                        | 1.68            | 1.77          | 2.02            | 2.06          | 1.96            | 2.21          | 2.23            | 2.63            | 3.02            | 4.05            | 3.88            | 3.97            | 4.43            | 2.21          | 2.23                     |     |
| Rated EER/COP                           |        | 3.48                        | 3.49            | 3.84          | 3.87            | 3.51          | 3.99            | 3.66          | 3.58            | 3.79            | 3.73            | 3.28            | 3.58            | 3.24            | 3.51            | 3.13          | 3.44                     |     |
| Rated AEER/ACOP                         |        | 3.41                        | 3.44            | 3.76          | 3.81            | 3.46          | 3.93            | 3.45          | 3.41            | 3.49            | 3.48            | 3.09            | 3.39            | 3.07            | 3.35            | 2.98          | 3.28                     |     |
| AEER/ACOP (part-load %)*                |        |                             |                 |               |                 |               |                 |               |                 |                 |                 | 4.19            |                 | 3.91            |                 |               |                          |     |
| Indoor unit                             |        | PCA-RP50KAQ                 |                 | PCA-RP60KAQ   |                 | PCA-RP71KAQ   |                 | PCA-RP71KAQ   |                 | PCA-RP100KAQ    |                 | PCA-RP125KAQ    |                 | PCA-RP140KAQ    |                 | PCA-RP71HAQ   |                          |     |
| Power supply                            |        | V: Single-phase, 50Hz, 230V |                 |               |                 |               |                 |               |                 |                 |                 |                 |                 |                 |                 |               | Single-phase, 50Hz, 230V |     |
| Airflow (Lo-Mi2-Mid-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     |                 | 17-19           |               |                          |     |
|   |        | 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 |                 | 283-317         |               |                          |     |
| 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     |                 | 34-38           |               |                          |     |
| Dimensions                              | Height | (mm)                        | 230             |               |                 |               |                 |               |                 |                 |                 |                 |                 |                 |                 |               |                          | 280 |
|   | Width  | (mm)                        | 960             |               | 1,280           |               | 1,600           |               | 1,600           |                 | 1,600           |                 | 1,600           |                 | 1,136           |               |                          |     |
|   | Depth  | (mm)                        | 680             |               |                 |               |                 |               |                 |                 |                 |                 |                 |                 |                 |               |                          | 650 |
| Weight                                  |        | (kg)                        | 25              |               | 32              |               | 36              |               | 36              |                 | 38              |                 | 39              |                 | 41              |               |                          |     |

\* MEPS compliant at part load



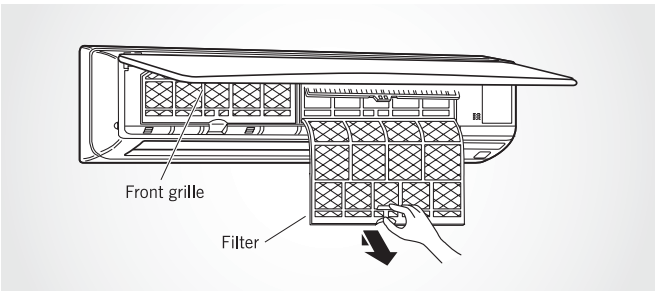
# PKA Series

## Wall Mounted

The large capacity PKA Series is both elegant and compact. With greater placement options and high airflow, PKA Series units are ideal light commercial uses (i.e. offices, stores, and server rooms).

### Removable Intake Grille Filter Allowing Easy Cleaning

Filter slides out and can be washed in water.



### Suitable for Server Room Applications

The PKA Series provides an economical split system solution for high sensible applications due to their larger coil size. As a result they are ideal for applications such as server rooms and laboratories where there is a need for sensible cooling.

### Wired Remote Controller Available (Optional)



A separately sold wired remote controller and terminal block are available to suit various installation sites. When connecting a wired remote controller the MAC-333IF-E interface is not required.

### Auto-Vane Shutter

The vane closes automatically when the unit is not running, creating a sleek flat finish that is aesthetically pleasing.

| Specifications: Wall-mounted (PKA) |        |                             |                |                 |                 |         |
|------------------------------------|--------|-----------------------------|----------------|-----------------|-----------------|---------|
| Indoor unit                        |        | PKA-RP71KAL                 |                |                 | PKA-RP100KAL    |         |
| Outdoor unit                       |        | PUHZ-RP71VHA5               |                |                 | PUHZ-RP100VKA2  |         |
| 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                        | 3.79           | 3.60            | 3.50            |         |
| Rated AEER/ACOP                    |        | 3.42                        | 3.59           | 3.33            | 3.28            |         |
| Indoor unit                        |        | PKA-RP71KAL                 |                |                 | PKA-RP100KAL    |         |
| Power supply                       |        | V: Single-phase, 50Hz, 230V |                |                 |                 |         |
| 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

### 4-Way Cassette and Compact Ceiling-concealed

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

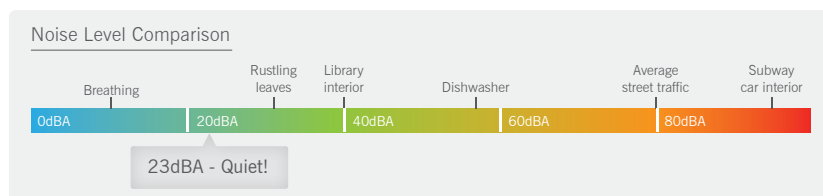
#### Compact Designs

There are models with capacity ranges for any room size. SLZ Series lightweight units sit in your ceiling space with only the grille visible, providing discrete comfort. Meanwhile SEZ Series units are a slim 200mm in height, making them ideal for tight installation spaces.



#### Impressively Quiet

S Series units offer quiet operation at a hushed noise level of 23dBA (SEZ-KD35), 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

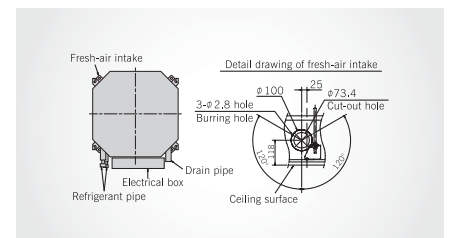
Boasting low electricity consumption, SLZ/SEZ Series air conditioners are the key to fresh, cost-effective comfort.

#### Air Cleaning Filter

This built-in filter removes dust and other particles, keeping the air clean at all times. Maintenance is as simple as vacuuming. The long-life filter in SLZ/SEZ Series indoor units can be used for approximately 2,500 hours before requiring replacement.

#### Fresh-Air Intake (SLZ Series)

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                 |                       | SLZ-KA50VAQ       |               | SEZ-KD35VAQ       |               | SEZ-KD50VAQ       |               | SEZ-KD60VAQ       |               | SEZ-KD71VAQ       |                |  |
| Outdoor unit  |        | SUZ-KA25VAD                 |                       | SUZ-KA50VAD       |               | SUZ-KA35VAD       |               | SUZ-KA50VAD       |               | SUZ-KA60VAD       |               | SUZ-KA71VAD       |                |  |
| Function  |        | 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) | 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          | 1.09              | 1.13          | 1.64              | 1.81          | 1.77              | 2.05          | 2.06              | 2.18           |  |
| Rated EER/COP   |        | 3.81                        | 3.94                  | 3.35              | 3.31          | 3.39              | 3.72          | 3.17              | 3.54          | 3.28              | 3.55          | 3.28              | 3.69           |  |
| Rated AEER/ACOP   |        | 3.64                        | 3.81                  | 3.28              | 3.25          | 3.31              | 3.63          | 3.11              | 3.49          | 3.22              | 3.50          | 3.23              | 3.64           |  |
| AEER/ACOP (part-load %)*  |        | 4.32                        |                       |                   |               |                   |               | 3.72              |               |                   |               |                   |                |  |
| Indoor unit   |        | SLZ-KA25VAQ                 |                       | SLZ-KA50VAQ       |               | SEZ-KD35VAQ       |               | SEZ-KD50VAQ       |               | SEZ-KD60VAQ       |               | SEZ-KD71VAQ       |                |  |
| Power supply  |        | V: Single-phase, 50Hz, 230V |                       |                   |               |                   |               |                   |               |                   |               |                   |                |  |
| Airflow (Lo-Mid-Hi)   |        | CMM                         | 8-9-10                |                   | 8-9-11        |                   | 7-9-11        |                   | 10-12.5-15    |                   | 12-15-18      |                   | 12-16-20       |  |
|   |        | L/S                         | 133-150-167           |                   | 133-150-183   |                   | 117-150-183   |                   | 167-208-250   |                   | 200-250-300   |                   | 200-267-333    |  |
| External static pressure Pa   |        | —<br>5/15/35/50             |                       |                   |               |                   |               |                   |               |                   |               |                   |                |  |
| Sound pressure level  |        | (dB)                        | 28-31-37              |                   | 30-34-39      |                   | 23-28-33      |                   | 30-34-37      |                   | 30-34-38      |                   | 30-35-40       |  |
| Supply air spigot size  |        | (mm)                        | —                     |                   |               |                   | 860×150       |                   |               |                   | 1,060×150     |                   |                |  |
| Dimensions  | Height | (mm)                        | Unit: 235, Panel: 20  |                   |               |                   | 200           |                   |               |                   | 200           |                   |                |  |
|   | Width  | (mm)                        | Unit: 570, Panel: 650 |                   |               |                   | 990           |                   |               |                   | 1,190         |                   |                |  |
|   | Depth  | (mm)                        | Unit: 570, Panel: 650 |                   |               |                   | 700           |                   |               |                   | 700           |                   |                |  |
| Weight  |        | (kg)                        | Unit: 17, Panel: 3    |                   |               |                   | 21            |                   | 23            |                   | 27            |                   |                |  |

\* MEPS compliant at part load

# Main Features of Mr. Slim Inverter Units

| Combination      | Indoor unit                                     | SLZ-VAQ | SLZ-VAL | SEZ-VA | PLA  |     | PEAD |     | PEA  | PKA  | PCA-KA |     |
|------------------|---|---------|---------|--------|------|-----|------|-----|------|------|--------|-----|
|                  | Outdoor unit                                    | SUZ     | SUZ     | SUZ    | PUHZ | SUZ | PUHZ | SUZ | PUHZ | PUHZ | PUHZ   | SUZ |
| Energy Saving    | Felt Temperature Control (i-See Sensor)         | —       | —       | —      | Opt  | Opt | —    | —   | —    | —    | —      | —   |
| Air Quality      | Fresh-Air Intake                                | ●       | ●       | —      | ●    | ●   | —    | —   | —    | —    | ●      | ●   |
|                  | High-Efficiency Filter                          | —       | —       | —      | Opt  | Opt | —    | —   | —    | —    | Opt    | Opt |
|                  | Oil Mist Filter                                 | —       | —       | —      | —    | —   | —    | —   | —    | —    | —      | —   |
|                  | Long-Life Filter                                | ●       | ●       | —      | ●    | ●   | ●    | ●   | —    | —    | ●      | ●   |
|                  | Filter Check Signal                             | ●       | —       | —      | ●    | ●   | ●    | ●   | —    | Opt  | ●      | ●   |
| Air Distribution | Auto Vane                                       | ●       | ●       | —      | ●    | ●   | —    | —   | —    | ●    | ●      | ●   |
|                  | Horizontal Vane (Auto Swing)                    | ●       | ●       | —      | ●    | ●   | —    | —   | —    | ●    | ●      | ●   |
|                  | High Ceiling Mode                               | —       | —       | —      | ●    | ●   | —    | —   | —    | —    | ●      | ●   |
|                  | Auto Fan Speed Mode                             | —       | —       | ●      | ●    | ●   | —    | —   | —    | ●    | ●      | ●   |
| Convenience      | On/Off Operation Timer                          | ●       | ●       | ●      | ●    | ●   | ●    | ●   | ●    | ●    | ●      | ●   |
|                  | Auto Change Over *1                             | ●       | ●       | ●      | ●    | ●   | ●    | ●   | ●    | ●    | ●      | ●   |
|                  | Auto Restart                                    | ●       | ●       | ●      | ●    | ●   | ●    | ●   | ●    | ●    | ●      | ●   |
|                  | Low-Temperature Cooling                         | ●       | ●       | ●      | ●    | ●   | ●    | ●   | ●    | ●    | ●      | ●   |
|                  | Low-Noise Operation (Outdoor Unit)              | —       | —       | —      | ●    | —   | ●    | —   | ●    | ●    | ●      | —   |
|                  | Rotation, Back-up and 2nd Stage Cut-in Function | —       | —       | —      | ●    | —   | ●    | —   | —    | Opt  | ●      | —   |
| System Control   | Wireless Controller                             | Opt     | ●       | Opt    | Opt  | Opt | Opt  | Opt | Opt  | Opt  | Opt    | Opt |
|                  | Wi-Fi Control                                   | —       | —       | Opt    | —    | —   | Opt  | Opt | Opt  | —    | —      | —   |
|                  | PAR-31MAA Control *2                            | ●       | Opt     | ●      | Opt  | Opt | Opt  | Opt | Opt  | Opt  | ●      | ●   |
|                  | Centralised On/Off Control *2                   | Opt     | Opt     | Opt    | Opt  | Opt | Opt  | Opt | Opt  | Opt  | Opt    | Opt |
|                  | System Group Control *2                         | Opt     | Opt     | Opt    | ●    | Opt | ●    | Opt | ●    | Opt  | ●      | Opt |
|                  | M-NET Connection *2                             | 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 |
|                  | Pump Down Switch                                | —       | —       | —      | ●    | —   | ●    | —   | ●    | ●    | ●      | —   |
|                  | Flare Connection                                | ●       | ●       | ●      | ●    | ●   | ●    | ●   | ●*3  | ●    | ●      | ●   |
| Maintenance      | Self-Diagnosis Function (Check Code Display)    | ●       | ●       | ●      | ●    | ●   | ●    | ●   | ●    | ●    | ●      | ●   |
|                  | Failure Recall Function                         | ●       | ●       | ●      | ●    | ●   | ●    | ●   | ●    | ●    | ●      | ●   |


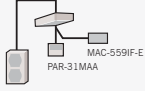
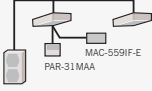
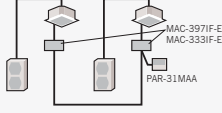
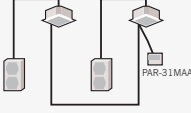
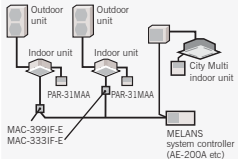
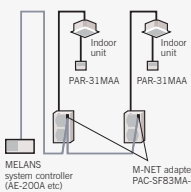
\*1 When multiple indoor units connected to an MXZ outdoor unit are running at the same time, simultaneous cooling and heating is not possible

\*2 Please refer "System Control" on page 20 for details



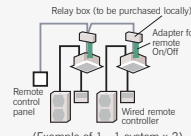
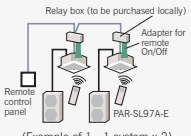
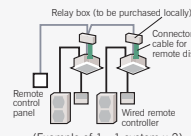
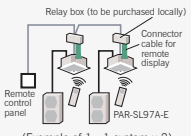
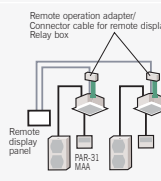
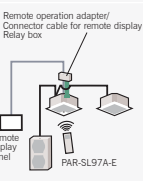

\*3 Not available with PEA-RP170WJA and PEA-RP200WJA models

# System Controls

## MAJOR SYSTEM CONTROL

|  | System Examples  |   | Details  | Major Optional Parts Required   |
|--|--|---|--|---|
|  | Indoor Unit  | Outdoor Unit  |  |   |
|  | S Series & P Series Indoor Unit  | P Series Indoor Unit  |  |   |
|  | S Series Outdoor   | P Series Outdoor  |  |   |
| <b>A</b> PAR-31MAA Control   |                               |   | Standard equipment SLZ-VAQ, SEZ-VAQ, PCA-KAQ<br><br>Optional equipment SLZ-VAL, PLA, PEAD, PEA, PKA  | <ul style="list-style-type: none"> <li>PAR-31MAA (Wired remote controller)</li> </ul>   |
| <b>B</b> Wi-Fi Control<br><b>ADVANCED Wi-Fi CONTROL</b><br><b>OPTIONAL UPGRADE</b> | <br>(Example of 1 : 1 system) | <br>(Example of Simultaneous Twin) | PAR-31 can be hardwired to MA Terminal Block (compatible models) to allow MAC-559IF-E connection via CN105.<br><br>Twin pack connection:<br>1 x PAR-31 + 1 x MAC-559IF-E connected to master indoor unit, secondary indoor follows suit.   | <ul style="list-style-type: none"> <li>PAR-31MAA (Wired remote controller)</li> <li>MAC-559IF-E</li> </ul>  |
| <b>C</b> System Group Control  |                               |                                    | <ul style="list-style-type: none"> <li>One remote controller can control multiple air conditioners with the same settings simultaneously</li> <li>One remote controller can control up to 16 refrigerant systems</li> <li>Up to two remote controllers can be connected</li> </ul> | <S Series Outdoor Unit><br>• MAC-397IF-E/MAC-333IF-E (Interface)<br>• PAR-31MAA (Wired remote controller)<br><br><P Series Outdoor Unit><br>• PAR-31MAA (Wired remote controller)   |
| <b>D</b> M-NET Connections   |                              |                                   | <ul style="list-style-type: none"> <li>Group of air conditioners can be controlled by MELANS system controller (M-NET)</li> </ul>  | <S Series Outdoor Unit><br>• MAC-397IF-E/MAC-333IF-E<br>• MELANS System controller<br><br><P Series Outdoor Unit><br>• PAC-SF83MA-E (M-NET converter)<br>• MELANS System controller |

## FOR P SERIES AND S SERIES INDOOR UNITS

|  | System Examples  |   | Details  | Major Optional Parts Required  |
|--|--|---|--|--|
|  | Wired remote controller  | Wireless remote controller  |  |  |
| <b>A</b> 2-remote Controller Control<br>With two remote controllers, control can be performed locally and remotely from two locations.   | <br>* Set "Main" and "Sub" remote controllers.<br>(Example of 1 : 1 system) | <br>* When using wired and wireless remote controllers<br>(Example of Simultaneous Twin) | <ul style="list-style-type: none"> <li>Up to two remote controllers can be connected to one group</li> <li>Both wired and wireless remote controllers can be used in combination</li> </ul>  | <ul style="list-style-type: none"> <li>Wired Remote Controller PAR-31MAA (for PKA, PAC-SH29TC-E is required)</li> <li>Wireless Remote Controller PAR-SL97A-E (for SEZ and PEAD)</li> <li>Wireless Remote Controller Kit for PCA PAR-SL94B-E</li> </ul>   |
| <b>B</b> Operation Control by Level Signal<br>Air conditioner can be started/stopped remotely. In addition, On/Off operation by local remote controller can be prohibited/permitted. | <br>(Example of 1 : 1 system x 2)   | <br>(Example of 1 : 1 system x 2)  | <ul style="list-style-type: none"> <li>Operation other than On/Off (e.g. adjustment of temperature, fan speed, and airflow) can be performed even when remote controller operation is prohibited</li> <li>Timer control is possible with an external timer</li> </ul>  | <ul style="list-style-type: none"> <li>Adapter for remote On/Off PAC-SE55RA-E</li> <li>Relay box (to be purchased locally)</li> <li>Remote control panel (to be purchased locally)</li> </ul>  |
| <b>C</b> Operation Control by Pulse Signal   | <br>(Example of 1 : 1 system x 2)   | <br>(Example of 1 : 1 system x 2)  | <ul style="list-style-type: none"> <li>The pulse signal can be turned On/Off</li> <li>Operation/emergency signal can be received at a remote location</li> </ul>   | <ul style="list-style-type: none"> <li>Connector cable for remote display PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E)</li> <li>Relay box (to be purchased locally)</li> <li>Remote control panel (to be purchased locally)</li> </ul>  |
| <b>D</b> Remote Display of Operating Status<br>Operating status can be displayed at a remote location.   | <br>(Example of 1 : 1 system)   | <br>(Example of Simultaneous Twin)   | <ul style="list-style-type: none"> <li>Operation/emergency signal can be received at a remote location (when channelled through the PAC-SF40RM-E → no-voltage signal, when channelled through the PAC-SA88HA-E → DC 12V signal)</li> </ul>   | <ul style="list-style-type: none"> <li>Remote display panel (to be purchased locally)</li> <li>Connector cable for remote display PAC-SA88HA-E / PAC-725AD (10 pcs. x PAC-SA88HA-E)</li> <li>Relay box (to be purchased locally)</li> <li>Remote operation adapter PAC-SF40RM-E</li> <li>*Unable to use with wireless remote controller</li> </ul> |
| <b>E</b> Timer Operation<br>Allows On/Off operation with timer<br>*For control by an external timer, refer to [B] Operation Control by Level Signal.                                 | <br>(Example of 1 : 1 system)   |   | <ul style="list-style-type: none"> <li>Weekly Timer: On/Off and up to 8 pattern temperatures can be set for each calendar day (Initial setting)</li> <li>On/Off Timer: On/Off can be set once each within 72 hr in intervals of 5 minute units</li> <li>Auto-off Timer: Operation will be switched off after a certain amount of time has elapsed. Set time can be changed from 30 min. to 4 hr. at 10 min. intervals</li> </ul> | Standard functions of PAR-31MAA  |





# Specifications

## Specification: Outdoor Unit

| Outdoor unit                        |    |            |            |                   |                   |
|-------------------------------------|---|------------|------------|-------------------|-------------------|
|                                     | SUZ-KA25VA  | SUZ-KA35VA | SUZ-KA50VA | SUZ-KA60VA        | SUZ-KA71VA        |
| 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 (572)/32 (538)   | 33 (557)   | 49 (817)   | 51 (850)/49 (816) | 50 (835)/48 (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               |                   |
|                                     | Width (mm)  | 800        |            | 840               |                   |
|                                     | Depth (mm)  | 285        |            | 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-RP100VKA2  | PUHZ-RP125VKA2 | PUHZ-RP140VKA2 | PUHZ-RP170VKA2 | PUHZ-RP200YKA2             |
| External finish                     |              | Munsell 3.0Y 7.8/1.1   |   |                |                |                |                            |
| Power supply                        |              | V: Single-phase, 50Hz, 230V  |   |                |                |                | V: Three-phase, 50Hz, 415V |
| Compressor output (kW)              |              | 1.2  | 1.9   | 2.4            | 2.9            | 3.0            | 3.6                        |
| Airflow (cooling/heating) CMM (L/S) |              | 55 (916)   | 110 (1,833)   | 120 (2,000)    |                | 140 (2,330)    | 140 (2,330)                |
| Sound pressure level (dB)           | Cooling mode | 47   | 49  | 50             | 50             | 58             | 58                         |
|                                     | Silent mode  | 44   | 46  | 47             | 47             | 56             | 56                         |
|                                     | Heating mode | 48   | 51  | 52             | 52             | 59             | 59                         |
| Sound power level (dB)              |              | 66   | 69  | 70             | 70             | 76             | 76                         |
| Dimensions                          | Height (mm)  | 943  | 1,338   |                |                |                |                            |
|                                     | Width (mm)   | 950  | 1,050   |                |                |                |                            |
|                                     | Depth (mm)   | 330  | 330   |                |                |                |                            |
| Weight (kg)                         |              | 69   | 118   | 120            | 127            | 136            |                            |
| Chargeless piping length (m)        |              | 30   | 30  |                |                |                |                            |
| Max. piping length (m)              |              | 50   | 75  |                |                |                |                            |
| Protection device                   |              | Discharge thermo, HP switch  |   |                |                |                |                            |
| Breaker size (A)                    |              | 25   | 32  | 40             |                |                | 32                         |

\*Above specifications are for outdoor units only

# Specifications

## Note for All Specifications

### Rating conditions (AS/NZS 3823)

Rating conditions (AS/NZS 3823)

Cooling - Indoor: 27°C (80°F) DB, 19°C (66°F) WB

Cooling - Outdoor: 35°C (95°F) DB

Heating - Indoor: 20°C (68°F) DB

Heating - Outdoor: 7°C (45°F) DB, 6°C (43°F) WB

Refrigerant piping length (one-way): 5m (16ft.)

## Guaranteed Operating Range

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

\*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

# Amount of Required Refrigerant

## Amount of Required 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  | —    | —     | $Xg = 30g/m \times (\text{length}-5)m$ |
| SUZ-KA35      | 1.05            | 0.15               | 0.3  | 0.45  | —    | —     |  |
| SUZ-KA50      | 1.6             | 0.06               | 0.16 | 0.26  | 0.36 | 0.46  | $Xg = 20g/m \times (\text{length}-7)m$ |
| 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 | $Xg = 55g/m \times (\text{length}-7)m$ |

| Piping length      | Factory charged | Additional charged |          |          |          |
|--------------------|-----------------|--------------------|----------|----------|----------|
|                    | 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 |          |          |          |          |
|---------------|-----------------|--------------------|----------|----------|----------|----------|
|               | 30m             | 31 - 40m           | 41 - 50m | 51 - 60m | 61 - 70m | 71 - 75m |
| PUHZ-RP170    | 7.7kg           | 0.9kg              | 1.8kg    | 2.7kg    | 3.6kg    | 4.5kg    |
| PUHZ-RP200    | 7.7kg           | 0.9kg              | 1.8kg    | 2.7kg    | 3.6kg    | 4.5kg    |

# Optional Parts

## 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                                  |
| Centralised drain pan                      | PAC-SG64DP-E | PUHZ-RP71  |
|  | PAC-SH97DP-E | PUHZ-RP100/125/140/170/200                                     |
| Drain pump                                 | 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   |
| MA & Contact terminal interface            | MAC-3971F-E  | SLZ-KA, SEZ-KD, PLA-RP60/71*1<br>PEAD-RP71*1, PCA-RP50/60/71*1 |
| M-NET interface                            | MAC-3991F-E  | SLZ-KA, SEZ-KD, PLA-RP60/71*1<br>PEAD-RP71*1, PCA-RP50/60/71*1 |
| M-NET & Terminal interface                 | MAC-3331F-E  | SLZ-KA, SEZ-KD, PLA-RP60/71*1<br>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<br>15.88→19.05                | PAC-SG73RJ-E<br>PAC-SG75RJ-E | PUHZ-RP71/100/125/140<br>PUHZ-RP71/100/125/140 |
| M-NET converter                                    | PAC-SF83MA-E                 | PUHZ-RP71/100/125/140                          |
| 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)           |
| Wireless remote controller kit (Sender & Receiver) | PAR-SL94B-E                  | PCA-RP   |
| Power supply unit                                  | PAC-SC51KUA                  | All outdoor units                              |
| Multiple remote controller adaptor                 | PAC-725AD                    | All indoor units                               |
| Wi-Fi Adaptor                                      | MAC-5591F-E                  | All PEA/PEAD/SEZ 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         | 30                             | 75                     | Liquid: ø9.52     | t 0.8          |
|                    |                                |                        | Gas: ø25.4        | t 1.0          |
| PUHZ-RP200         | 30                             | 75                     | Liquid: ø9.52     | t 0.8          |
|                    |                                |                        | Gas: ø25.4        | t 1.0          |

#### ⚠ 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.
- By 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 where the emission of VOCs such as phthalate compounds and formaldehyde is known to be high (e.g. mobile phone base stations) 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 it with any other refrigerant and do not allow air to remain in the lines.
- If air is mixed with the refrigerant, then it can be the cause of abnormal high pressure in the refrigerant lines, and may result in an explosion and other hazards.
- The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.

Peace of mind is assured with your choice of Mitsubishi Electric Heat Pumps. We support our product with a unique and comprehensive 5 year parts and labour warranty.



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