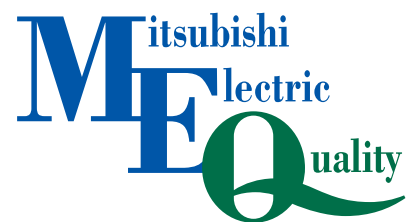


SPLIT-TYPE AIR CONDITIONERS

*Changes for the Better*












Inverter Series  
**Mr. SLIM**  
**R410A**

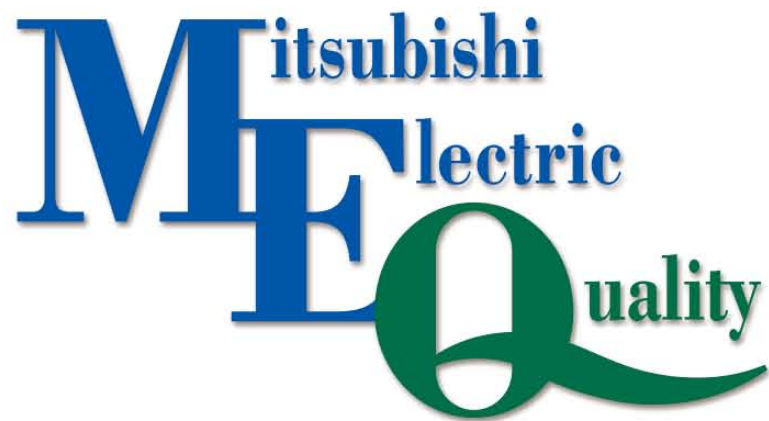


for a greener tomorrow



		18,000 BTU/h	24,000 BTU/h	30,000 BTU/h	36,000 BTU/h	42,000 BTU/h	48,000 BTU/h	Remote Controller	Contents
	<b>Ceiling-cassette</b> (PLY SERIES)	 PLY-P18BA	 PLY-P24BA	 PLY-P30BA	 PLY-P36BA	 PLY-P42BA	 PLY-P48BA	  optional	<b>P. 07-09</b>
	<b>Ceiling-suspended</b> (PCY SERIES)	 PCY-P18KA	 PCY-P24KA	 PCY-P30KA	 PCY-P36KA	 PCY-P42KA	 PCY-P48KA	  optional  optional	<b>P. 10</b>
	<b>Ceiling-concealed</b> (PEY SERIES)	 PEY-P18JA	 PEY-P24JA	 PEY-P30JA	 PEY-P36JA	 PEY-P42JA	 PEY-P48JA	  optional  optional	<b>P. 11</b>
<b>Outdoor Unit</b>		 SUY-KA18VA	 SUY-KA24VA	 SUY-KA30VA	 SUY-KA36VA	 PUY-P42V/YKA	 PUY-P48V/YKA <small>For twin multi-operation (only PUY-P48V/YKA), please refer to page 12.</small>		





Simply meeting industry standards, however stringent, is not enough. Our aim is to exceed them. When it comes to comfort, efficiency and durability, Mitsubishi Electric offers you a distinctive advantage. We call it MEQ — Mitsubishi Electric Quality. It results in benchmark leading-edge products like our air conditioners, which consume minimal power, protect your investment through a long service life, offer superior reliability and are built to take the punishment of extreme weather conditions year in and year out.

## Mitsubishi Electric Offers Three Important Advantages

### Comfort

#### Clean air, optimum temperature distribution and silent operation...

MEQ has led to the development of state-of-the-art air purification and deodorization filters that remove unwanted odors and impurities in the air. Original airflow technologies and specially designed components provide even temperature distribution — even in remote regions of a room. At Mitsubishi Electric, comfort doesn't simply mean cool or warm, it means clean and quiet too.

### Efficiency

#### Optimum cost performance and energy savings...

MEQ results in air conditioners that are rated among the best in the industry in terms of quality and energy efficiency. We strive for a perfect balance of performance, reliability, low power consumption and long service life. This is complemented by continuously introducing new technologies and components that further reduce energy requirements and negative environmental impact.

### Durability

#### Rugged construction, rigorous testing, long-lasting operation...

MEQ is behind a mindset that goes to extremes to ensure higher quality products that protect the initial investment over years of reliable service. We subject our indoor and outdoor units to rigorous durability testing, including harsher temperature extremes than likely found anywhere in the world.

## Doing Our Part to Create a Better Future for All

### Core Environmental Policy

Mitsubishi Electric promotes sustainable development, and is committed to protecting and restoring the global environment through technology, all of its business activities and the actions of its employees.

### R 410A refrigerant

As scientific evidence points to man-made chemicals for the damage caused to the ozone layer, we only use chlorine-free refrigerants that are safe and rated zero ODP (Ozone Depletion Potential). Accordingly, our systems require less energy to run and have a significantly lower indirect global warming potential. In short, we produce the most efficient equipment possible, while helping to protect the environment.

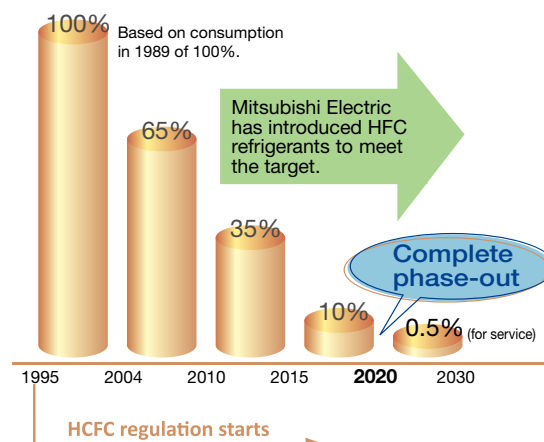
The Montreal Protocol calls for the complete abolishment of HCFC (such as R22) refrigerant production by the year 2020.

**Mitsubishi Electric is committed to shifting over to HFC models from HCFC models.**

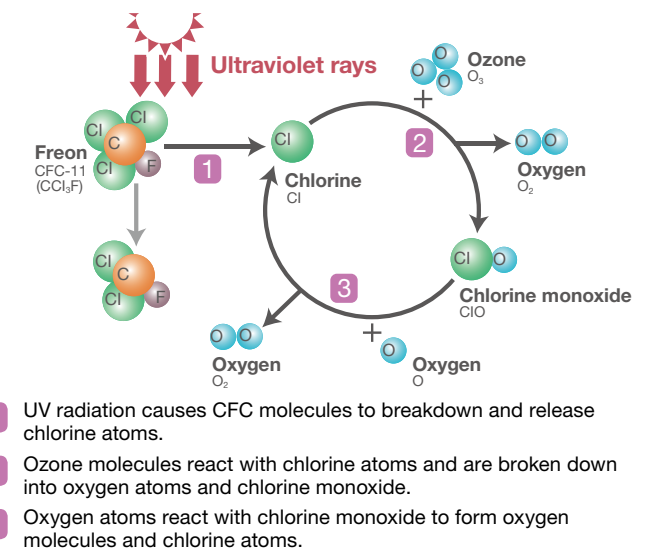
### Montreal Protocol

#### Montreal Protocol regulates HCFCs

- HCFC production has been regulated since 2004.
- HCFCs will be entirely banned by 2020.



### Mechanism of ozone layer depletion by HCFCs



Chlorine atoms react with ozone molecules again. This repetition continues, depleting the ozone layer.

HFC refrigerants do not contain chlorine, the causative agent of ozone layer depletion, which HCFC refrigerants contain. Therefore, Mitsubishi Electric has shifted over to HFC (R410A) refrigerants from HCFC (R22) refrigerants.

# INVERTER TECHNOLOGIES

Mitsubishi Electric inverters ensure superior performance, including the optimum control of operation frequency. As a result, optimum power is applied in all heating/cooling ranges and maximum comfort is achieved while consuming minimal energy. Fast, comfortable operation and amazingly low running cost — That's the Mitsubishi Electric promise.

## INVERTERS – HOW THEY WORK

Inverters electronically control the electrical voltage, current and frequency of electrical devices such as the compressor motor in an air conditioner. They receive information from sensors monitoring operating conditions and adjust the rotation speed of the compressor, which directly regulates air conditioner output. Optimum control of operation frequency results in eliminating the consumption of excessive electricity and providing the most comfortable room environment.

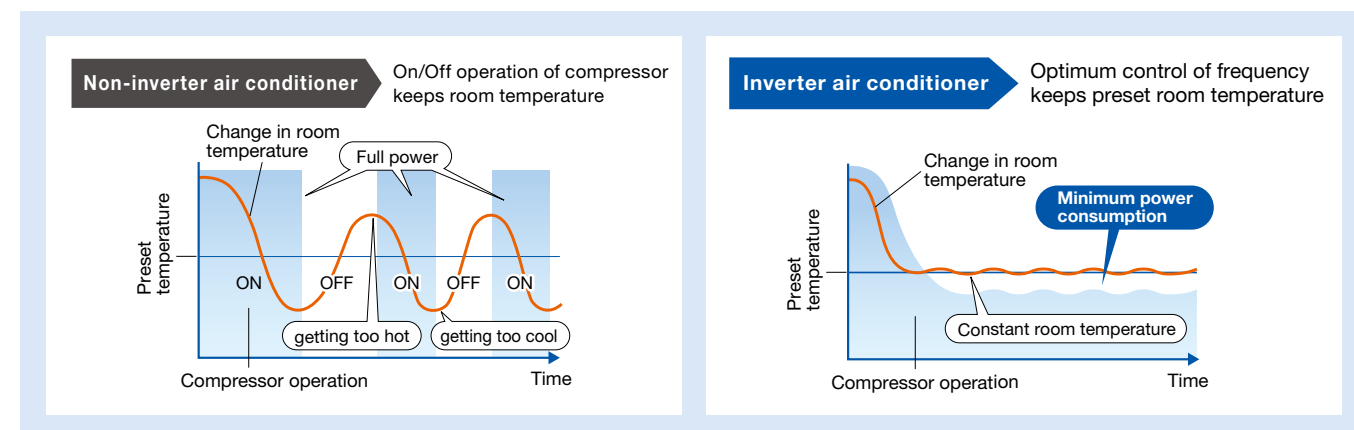
## ECONOMIC OPERATION

Impressively low operating cost is a key advantage of inverter-equipped air conditioners. We have combined advanced inverter technologies with cutting-edge electronic and mechanical technologies to achieve a synergistic effect that enables improvements in heating/cooling performance efficiency. As a result, better performance and lower energy consumption are achieved.

## TRUE COMFORT

Below is a simple comparison of air conditioner operation control with and without an inverter.

### ■ Inverter operation comparison



The compressors of air conditioners without an inverter start and stop repeatedly in order to maintain the preset room temperature. This repetitive on/off operation uses excessive electricity and compromises room comfort. The compressors of air conditioners equipped with an inverter run continuously; the inverter quickly optimizing the operating frequency according to changes in room temperature. This ensures energy-efficient operation and a more comfortable room.

### Point 1 Quick & Powerful

Increasing the compressor motor speed by controlling the operation frequency ensures powerful output at start-up, and brings the room temperature to the comfort zone faster than units not equipped with an inverter. Hot rooms are cooled, and cold rooms are heated, faster and more efficiently.

### Point 2 Room Temperature Maintained

The compressor motor operating frequency and the change in room temperature are monitored to calculate the most efficient waveform to maintain the room temperature in the comfort zone. This eliminates the large temperature swings common with non-inverter systems and guarantees a pleasant, comfortable environment.

# OTHER TECHNOLOGIES

## MORE ADVANTAGES WITH MITSUBISHI ELECTRIC



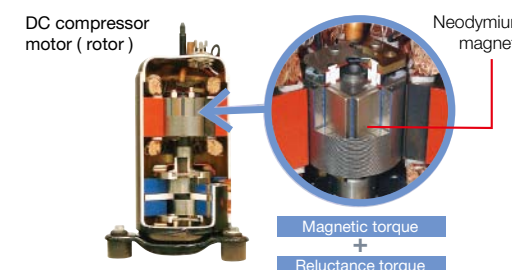
### Joint Lap DC Motor

Mitsubishi Electric has developed a unique motor, called the “Poki-Poki Motor”, which is manufactured using a joint lapping technique. This innovative motor operates based on a high-density, high-magnetic force, leading to extremely high efficiency and reliability.



### Reluctance DC Rotary Compressor

Powerful neodymium magnets are used in the rotor of the reluctance DC motor. More efficient operation is realized by strong magnetic and reluctance torques produced by the magnets.



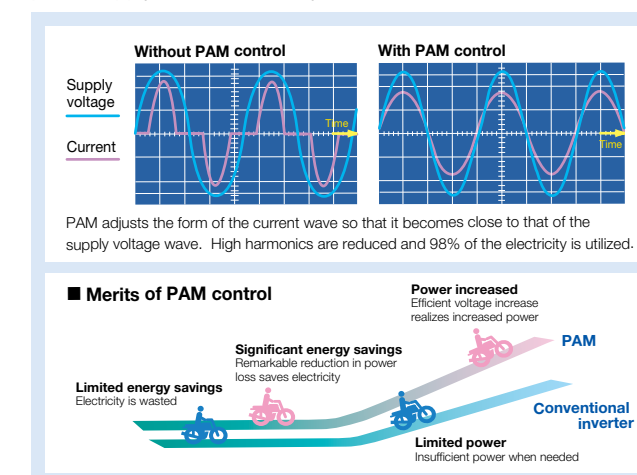
### DC Fan Motor

A highly efficient DC motor drives the fan of the outdoor unit. Efficiency is much higher than an equivalent AC motor.



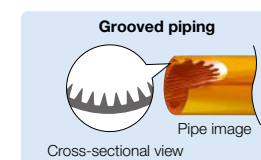
### PAM (Pulse Amplitude Modulation)

PAM is a technology that controls the current waveform so that it resembles the supply voltage wave, thereby reducing loss and realising more efficient use of electricity. Using PAM control, 98% of the input power supply is used effectively.



### Grooved Piping

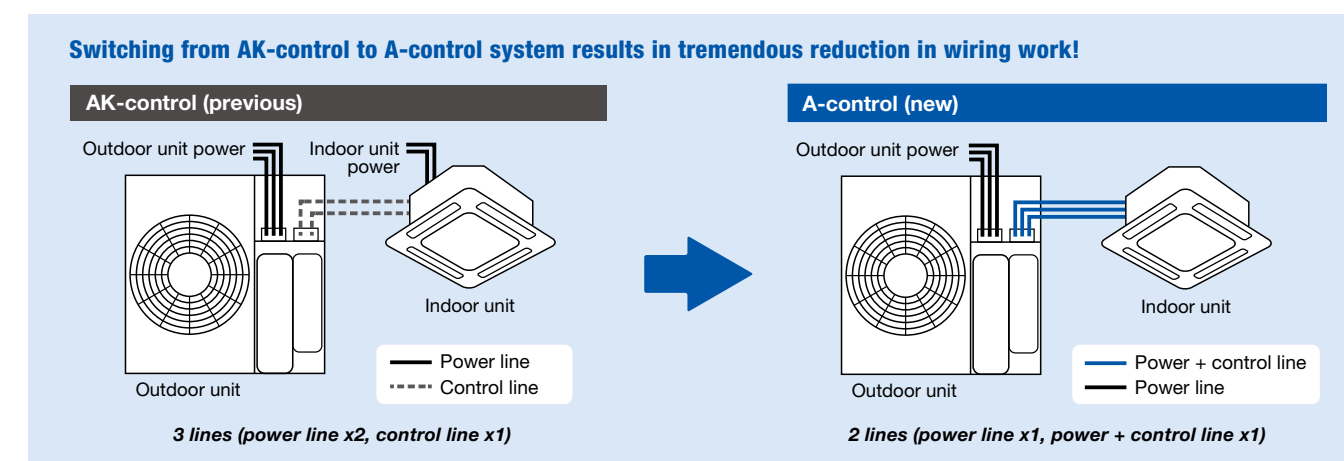
High-performance grooved piping is used in heat exchangers to increase the heat exchange area.



## Easy Installation (A-control)

Mitsubishi Electric's A-control system adopts a “single-line method for power and control” that combines the power and control lines between the indoor and outdoor units into a single line. Power is obtained from a line on the outdoor unit. Additionally, a single triplex line is sufficient for wiring between indoor units for the Twin-multi system.

### ■ Outdoor unit system control comparison





# 4-way Ceiling- cassette

(PLY SERIES)

A sophisticated design that matches a variety of rooms and a high level of convenience enhancing your quality of life are combined in this compact, multi-functional indoor unit.

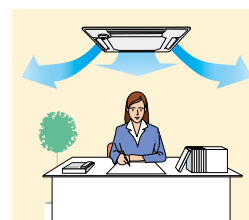
## Wide Airflow

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



## Less Cold Draft

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

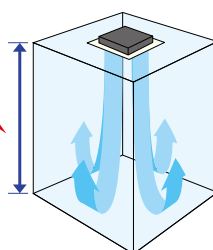


Horizontal airflow prevents drafty feeling

## Wide-flow Air Outlet

The high-power ceiling cassettes offer a wide-flow air outlet that enables effective air conditioning of rooms with atrium ceilings up to 4.5m in height. The demands of high-ceiling applications such as halls, showrooms or shopping malls can now be fully answered thanks to this powerful, yet highly efficient airflow.

Ideal for high-ceiling applications as high as 4.5m (PLY-P30/36/42/48BA)



■ Specification according to ceiling height (Unit: m)

	PLY-P18/24BA			PLY-P30/36/42/48BA		
	Low ceiling*	Standard	High ceiling	Low ceiling*	Standard	High ceiling
4-way	2.5	2.7	3.5	2.7	3.2	4.5
3-way	2.7	3.0	3.5	3.0	3.6	4.5

\* If required to use Low Ceiling mode under high humidity conditions, please consult with your Mitsubishi Electric dealership since there is some risk of condensation.

## Automatic Air-speed Adjustment

An automatic air-speed adjustment mode is provided in addition to the four air-speed stages, of High, Medium 1, Medium 2, and Low. Air speed can be changed freely according to the difference between set temperature and room temperature. The automatic air-speed adjustment mode offers quick cooling of a room in High mode, such as when starting cooling operation. After the room temperature is stabilized, the system switches to Low mode automatically to maintain comfort.

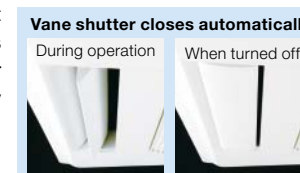
Low → Medium 2 → Medium 1 → High → Automatic air-speed adjustment

(When using the wireless remote controller, an extra setting is required.)

## Automatic Vane Shutter\*

When the air conditioner is not operating, the vane shutter closes automatically to conceal the air outlet and create an aesthetically appealing flat surface.

\* This feature will not activate when the vane is set at a fixed position.



## Unit Height of Only 258mm (PLY-P18/24BA)

Ceiling cassette models boast a slim body height for smooth and aesthetic installation, even in narrow spaces.



## "Pure White" Colour Matches Interior Décor

The colour "Pure White" has been introduced for the decoration panel and wired remote controller so as to blend in with any interior décor.

## Quiet Operation

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



## Other Features

- Maximum upward draining of 850mm
- Wireless remote controller available
- Duct flange for fresh-air intake
- Branch duct

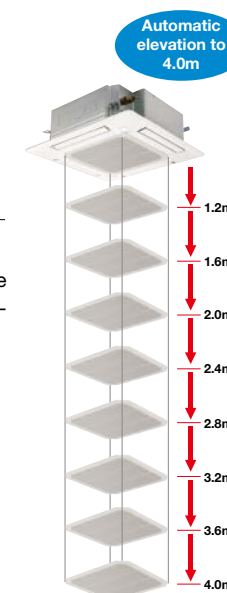
## Automatic Grille Lowering Function (Option)

### Easy to use/Simple maintenance

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



Elevating (up-down) controller  
(comes with the automatic elevation panel)

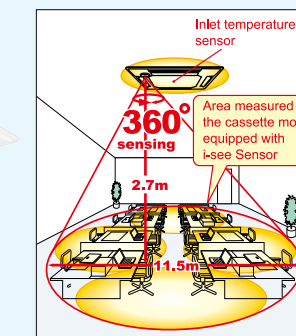


## i-see Sensor (optional corner panel)

The "i-see Sensor" built into the optional corner panel eliminates uneven temperature distribution and reduces electricity consumption.



With optional i-see Sensor corner panel



## "i-see Sensor" temperature-sensing technology improves energy efficiency and enhances room comfort

The "i-see Sensor" is an innovative Mitsubishi Electric technology that uses a radiation-based sensor to monitor temperature throughout an entire room. When connected to the air conditioner control panel, the "i-see Sensor" works to maximize room comfort.

### ■ i-see Sensor Operation

The "i-see Sensor" rotates 90° at intervals of 5sec, accurately measuring the temperature throughout the room (covering entire floor space).

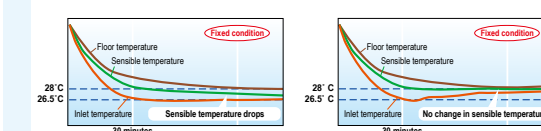
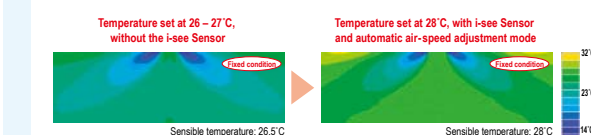


## Sensible temperature control prevents excessive cooling through pioneering control technology

By measuring the inlet temperature and floor temperature, temperatures felt by the human body (sensible temperature) are computed. This allows the proper sensible temperature to always be maintained through the suppression of excessive cooling.

## "i-see Sensor" automatically controls over-cooling by detecting the optimum temperatures

Example When you want a sensible temperature of 28°C.



The sensible temperature drops according to the drop in floor-level temperature. If the floor-level temperature is not monitored during long cooling operation, the sensible temperature becomes chilly.

Air temperature is adjusted according to the floor temperature to keep the sensible temperature at 28°C.

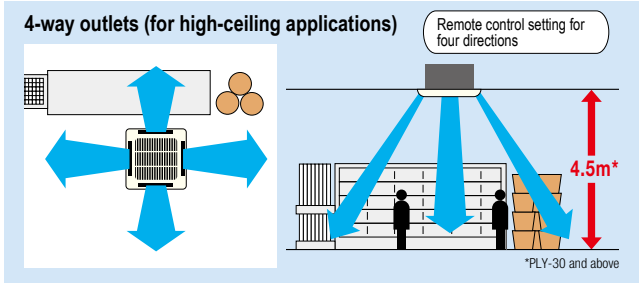


Vane Control

For Shopping Malls

Wide airflow coverage down to the floor even in expansive spaces like large factory-outlet centers or shopping malls with high ceilings.

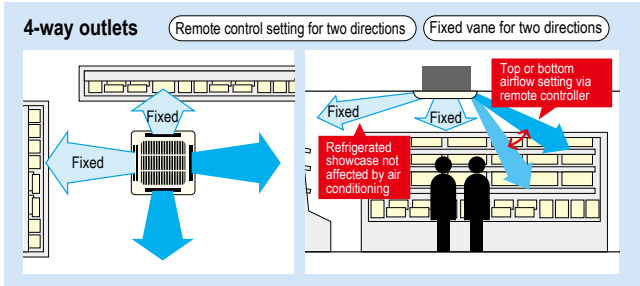
The unique airflow design of the powerful ceiling-cassette models reduces pressure loss and provides wide cool-air coverage from high ceilings to the floor even in expansive spaces like shopping malls with ceilings over 4 metres in height.



For Retail Outlets (e.g. grocery stores)

These units are ideal for maintaining constant temperatures in environments that have equipment such as refrigerated showcases.

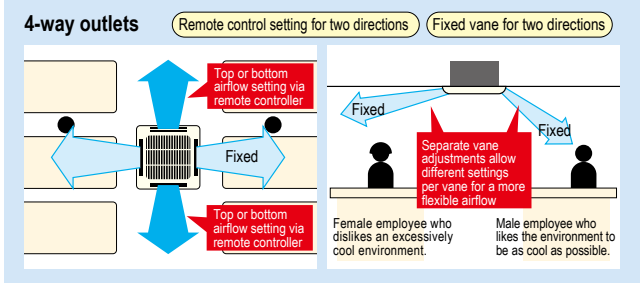
Individual vane angle adjustment enables precise airflow control to specific areas of the store to reduce unnecessary air conditioning of areas such as refrigerated showcases.



For Offices

Flexible and pleasant airflow eliminates annoying drafts within the office environment.

In office environments, annoying drafts can be bothersome, leading to discomfort and reduced productivity. Precise vane control helps to eliminate this problem.



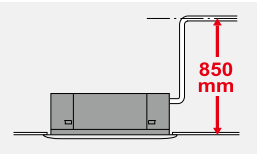
Fresh-air Intake

Indoor air quality is significantly enhanced by the direct intake of fresh air from outside. An optional multi-function casement (PAC-SH53TM-E) is also available for the intake of a larger volume of air.

Fresh-air Intake

Drain Water Lifting Mechanism

A high-performance drain pump on the drain water lifting mechanism allows the drain water pipe to be routed as high as 850mm from the ceiling surface.



Handy Corner Pocket Design Simplifies Maintenance

By using the handy pockets equipped on the four corners of the grille, maintenance work such as drain pan cleaning and height adjustments can be accomplished without removing the grille.

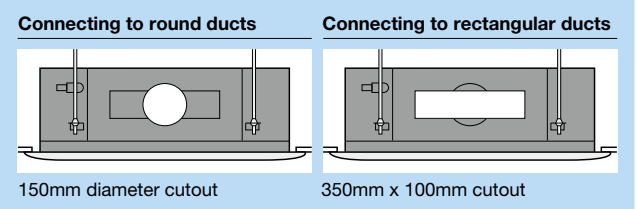


Bacteria- and Mold-resistant Specifications

Mitsubishi Electric filters are bacteria-resistant, and the drain pans are designed to prevent the growth of mold for fresh and pleasant air conditioning at all times.

Compatible with Round and Rectangular Ducts

For easy connection to branch ducts, knock-out holes are designed to fit both round and rectangular ducts. Matching the shape of the duct fringe provides more flexibility during installation.



Features at a glance

Installation & Maintenance	Comfort	Others
<ul style="list-style-type: none"><li>• Chargeless system</li><li>• Compact design</li><li>• Drain water lifting (850mm)</li><li>• Handy corner pocket</li><li>• Long-life filter (2500hr)*</li><li>• Self-diagnostic function</li><li>• Filter indicator (for wired remote controller)</li><li>• Flockless vanes</li><li>• Elevation grille</li></ul>	<ul style="list-style-type: none"><li>• i-see Sensor</li><li>• Auto fan speed</li><li>• Wide vane</li><li>• Smudge/draft-free</li><li>• High-ceiling application</li><li>• Computerized dehumidifier</li><li>• Quiet operation</li><li>• Bacteria- and mold-resistant filter</li></ul>	<ul style="list-style-type: none"><li>• System control</li><li>• Twin-multi operation</li><li>• Auto vane shutter</li><li>• Auto restart</li><li>• Fresh-air intake</li><li>• Outdoor unit max. operating temp. of 46°C</li></ul>

\*May vary according to operating conditions.

# Ceiling-suspended

(PCY SERIES)



PCY-P18/24/30/36/42/48KA



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

Stylish Indoor Unit Design

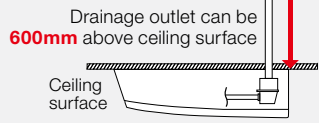
A stylish square-like design is adopted for the indoor units of all models. As a result, the units blend in better with the ceiling.



Optional Drain Pump for Full-capacity Models

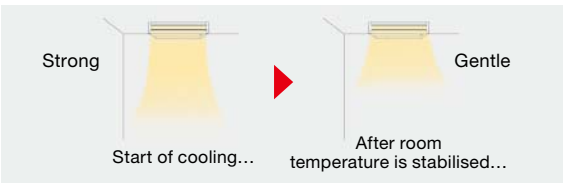
The pumping height of the optional drain pump has been increased from 400mm to 600mm, expanding flexibility in choosing unit location during installation work.

Drain pump installation possible



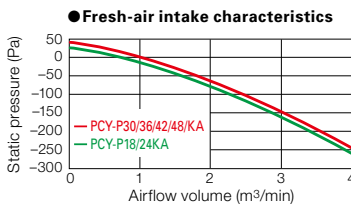
Automatic Air-speed Adjustment

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



Fresh-air Intake

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



Flockless Vanes

With the adoption of flockless vanes, dirt and other impurities can be cleaned off easily using a mild household detergent.

Features at a glance

Installation & Maintenance	Comfort	Others
<ul style="list-style-type: none"><li>• Chargeless system</li><li>• New direct suspension system</li><li>• Drain water lifting (600mm)*1</li><li>• Flexible piping</li><li>• Long-life filter (2500hr)*2</li><li>• High-efficiency filter*1</li><li>• Self-diagnostic function</li></ul>	<ul style="list-style-type: none"><li>• Auto swing</li><li>• Computerized dehumidifier</li><li>• Quiet operation</li></ul>	<ul style="list-style-type: none"><li>• System control</li><li>• Twin-multi operation</li><li>• Auto restart</li><li>• Auto vane shutter</li><li>• Outdoor unit max. operating temp. of 46°C</li></ul>

\*1 Optional

\*2 May vary according to operating conditions.

# Ceiling-concealed

(PEY SERIES)



PEY-P18/24/30/36/42/48JA



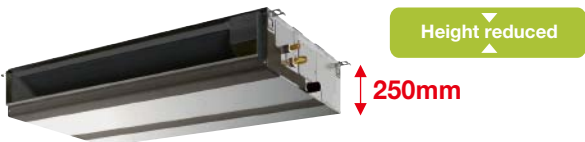
optional optional



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

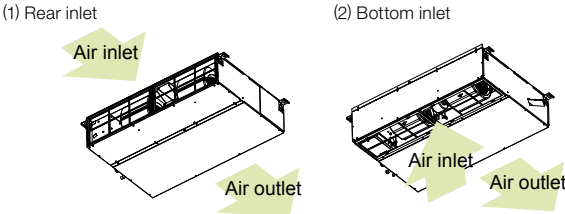
### Compact Indoor Units

For all models, unit height is unified to 250mm. Compared to the previous model, height has been reduced, allowing installation in tight spaces such as ceiling cavities or drop-ceilings.



### Air Inlet

Units with bottom inlets make more noise than those with rear inlets. It is recommended that the rear inlet be selected when installing a unit in a room that should be quiet, such as a bedroom.



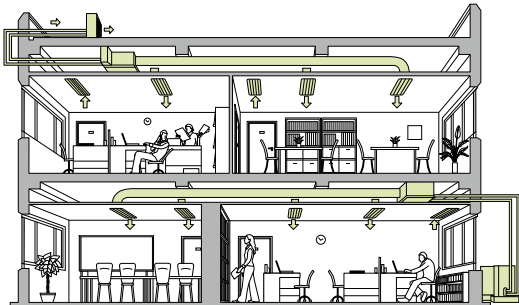
### Wide Selection of Fan Speeds and External Static Pressure

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

#### External static pressure setting

Series	18	24	30	36	42	48
PEY-P-JA	35/50/70/100/125Pa					

#### Flexible duct design

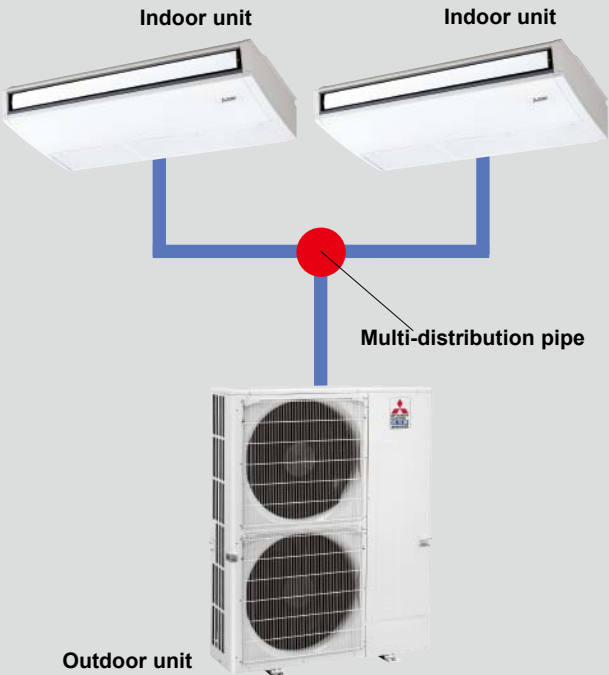


### Features at a glance

Installation & Maintenance	Comfort	Others
<ul style="list-style-type: none"><li>• Chargeless system</li><li>• Smooth installation</li><li>• Self-diagnostic function</li></ul>	<ul style="list-style-type: none"><li>• Computerized dehumidifier</li><li>• Quiet operation</li></ul>	<ul style="list-style-type: none"><li>• System control</li><li>• Twin-multi operation</li><li>• Auto restart</li><li>• Outdoor unit max. operating temp. of 46°C</li></ul>

# CONTROL TECHNOLOGIES

## Twin-multi Operation



Two indoor units can be connected to a single outdoor unit and both units can be operated simultaneously from a single remote controller using the optional multi-distribution pipe (only indoor units of the same capacity can be connected).

#### Outdoor Unit and Twin-multi Combinations

Outdoor unit	Twin-multi
PUY-P48V/YKA	24 + 24
Multi-distribution pipe	MSDD-50TR-E

#### Note

- The capacity of both indoor units must be identical.
- Different types of indoor units with identical capacities can be connected.
- The height difference between both indoor units must be 1 meter or less.
- When two units are connected, the main unit can be used to control the operation of both units.

## Mr. SLIM Convenient Remote Controller



### Stylish wireless remote controller with all the latest programming features

- **FAN SPEED SELECT button**  
Used to change fan speed.

- **VANE CONTROL button**  
Used to change airflow direction.

- **MODE SELECTION button**  
Used to select operating modes — Cool, Dry and Fan.

- **TIMER CONTROL buttons**  
**STOP (OFF timer):** When this function is activated, the air conditioner will automatically stop at the preset time.  
**START (ON timer):** When this function is activated, the air conditioner will automatically start at the preset time.

- **FAN SPEED INDICATOR**  
Displays the fan speed (HIGH or LOW).

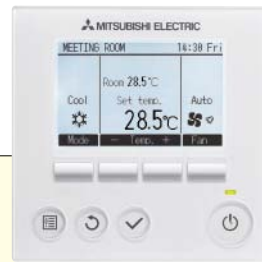
- **HOUR and MINUTE buttons**  
Used to set the time and timer settings.

- **TIMER button/RESET button**



# CONTROL TECHNOLOGIES

## User-friendly Deluxe Remote Controller with Excellent Operability and Visibility



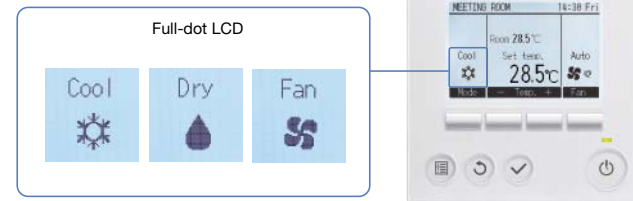
PAR-31MAA (Optional)

### Full-dot Liquid-crystal Display Adopted

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

PAR-31MAA

Display Example [Operation Mode]



### Easy-to-Read & Easy-to-Use

#### Multi-language

#### Multi-language Display

Control panel operation in eight different languages

Choose the desired language from among the following.



## Energy-efficient Control

### Operation Control Functions

#### Auto-return

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

After adjusting the initial temperature on a hot 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 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**

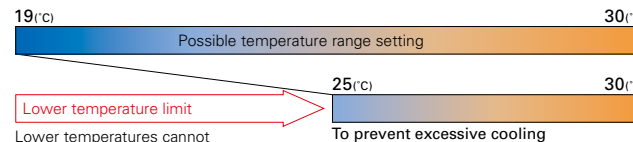
This function monitors the room temperature and automatically activates the cooling mode when the temperature rises above the preset maximum temperature setting.

#### Temperature Range Restriction

**Temperature Range Restriction prevents overcooling**

Using a temperature that is 1°C higher for cooling results in a 10% reduction in power consumption.\* Temperature Range Restriction limits the maximum and minimum temperature settings, contributing to the prevention of overcooling. \*In-house calculations

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



Recommended for **Office** **Restaurant**

#### Auto-off Timer

**Turns cooling off automatically after preset time elapses**

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

Recommended for **Meeting room** **Changing room**

#### Operation Lock

**Fixed temperature setting promotes energy savings**

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

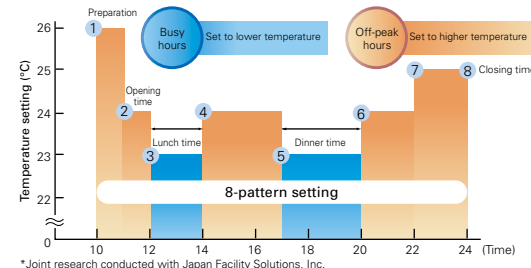
Recommended for **Office** **School** **Public hall** **Hospital** **Computer server facility**

#### Weekly Timer

**Set up to 8 patterns per day including temperature control**

The Weekly Timer enables the setting of operation start and stop times and adjusting the temperature as standard features. Up to 8 patterns per day can be set, providing operation that matches the varying conditions of each period, such as the number of customers in the store.\*Weekly Timer cannot be used when On/Off Timer is in use.

Setting Example (restaurant in summer time)



\*Joint research conducted with Japan Facility Solutions, Inc.

#### Automatic Grille Lowering (4-way ceiling cassette)

**Easily raise/lower panels using the remote controller (PLY-P42/48BA)**

An automatic panels lowering function is available as an option. The panels can be lowered/raised using a button on the wired remote controller. Filter cleaning can be performed easily.

### Reassuring Troubleshooting Navigation Function

**Contact Details Displayed When Abnormality Occurs**  
**Easily contact a service company when there is a problem.**

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

## Advanced MA Remote Controller – A Progressive Step in the Evolution of Air Conditioning Control



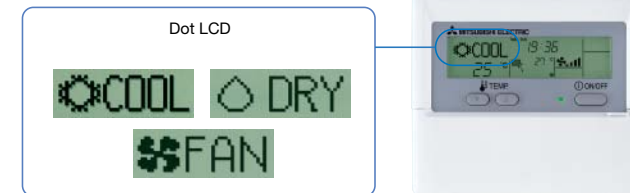
PAR-21MAA

### Dot Liquid-crystal Display Adopted

The adoption of dot liquid-crystal display (LCD) technology and a large display screen for the control panel optimise visibility. Operation and control status are easily read at a glance.

Display Example [Operation Mode]

PAR-21MAA



### Easy-to-Read/Easy-to-Use

#### Multi-language

#### Multi-language Display

Control panel operation in eight different languages

Choose the desired language from among the following.



## Energy-efficient Control

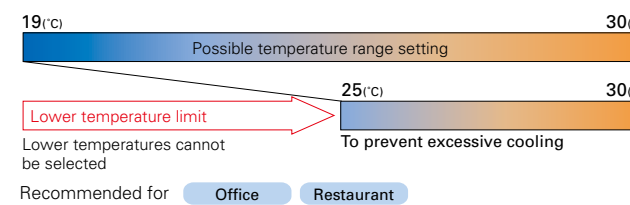
### Operation Control Functions

#### Temperature Range Restriction

**Air conditioner operation restricted to within a specified operating range**

Set the upper and lower limits for the temperature range during operation. Excessive cooling is prevented, leading to increased energy savings.

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



#### Auto-off Timer

**Automatically turns off air conditioner**

Set the time for the air conditioner to turn off automatically. The timer can be set in the range from 30 minutes up to 4 hours in 30-minute intervals. The "Simple Timer"—starts/stops in units of 1 hour in a 72-hour period—is set at the time of shipment from the factory. It can be changed to the "Auto-off Timer" function using the remote controller.

Recommended for **Meeting room** **Changing room**

#### Operation Lock

**Prevent operation settings from being changed**

Units can be set so that the operation mode cannot be changed. When "Operation Lock" is activated, new temperature setting commands are not accepted, thereby ensuring that the unit runs in the specified (locked in) temperature range. This promotes energy savings and prevents erroneous/ mischievous operation. Only the administrator can change settings when using the Operation Lock mode.

Recommended for **Office** **School** **Public hall** **Hospital** **Computer server facility**

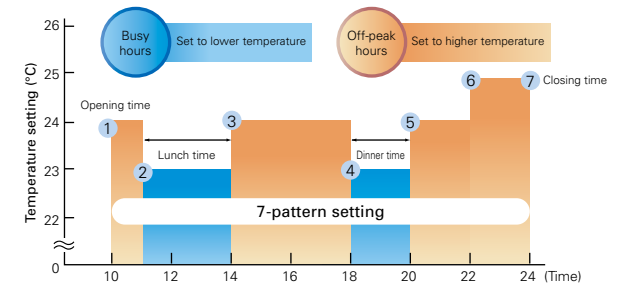
#### Weekly Timer

**Introduced in response to market demand**

**Control temperature on a weekly basis**


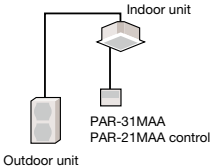

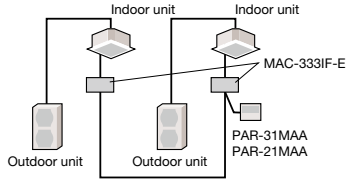
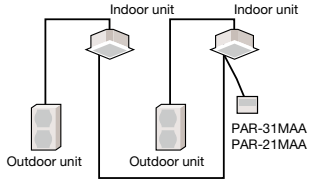

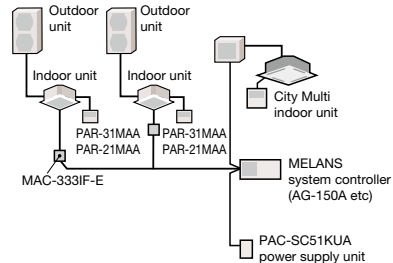
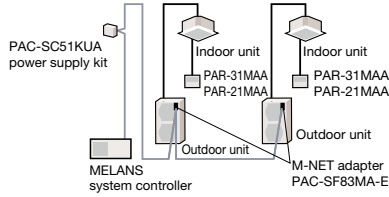
Temperature settings and On/Off control can be managed over a period of one week using the Weekly Timer. Up to eight setting patterns per calendar day are possible.

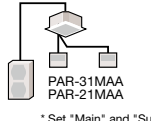
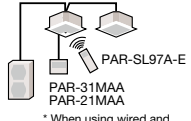
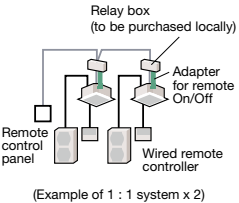
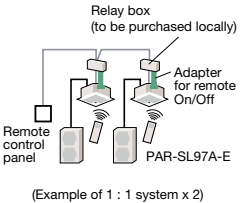
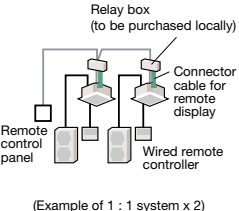
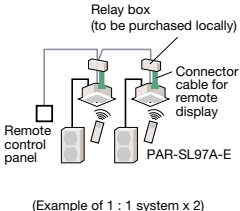
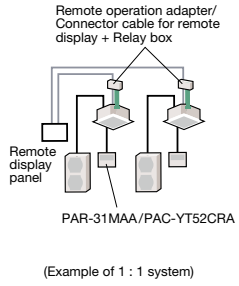
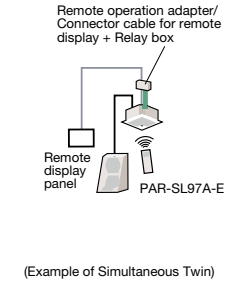
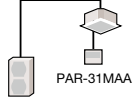
Setting Example (restaurant in summer time)



(Results of cooperative study with Japan Facility Solutions, Inc.)



MAJOR SYSTEM CONTROLS		
	System Examples	
Indoor Unit	PLY, PCY, PEY Series indoor unit	
Outdoor Unit	SUY Series outdoor unit	PUY Series outdoor unit
 <b>PAR-31MAA Control</b> <b>PAR-21MAA Control</b>		
Details	Standard equipment (for indoor units compatible with wired remote controllers)	
Major Optional Parts Required	<ul style="list-style-type: none"><li>• PAR-31MAA (wired remote controller)</li><li>• PAR-21MAA (wired remote controller)</li></ul>	
 <b>System Group Control</b>		
Details	<ul style="list-style-type: none"><li>• One remote controller can simultaneously control multiple air conditioners with the same settings.</li><li>• One remote controller can control up to 16 refrigerant systems.</li><li>• Up to two remote controllers can be connected.</li></ul>	
Major Optional Parts Required	<ul style="list-style-type: none"><li>• MAC-333IF-E (interface)</li><li>• PAR-31MAA (wired remote controller)</li><li>• PAR-21MAA (wired remote controller)</li></ul>	<ul style="list-style-type: none"><li>• PAR-31MAA (wired remote controller)</li><li>• PAR-21MAA (wired remote controller)</li></ul>
 <b>M-NET Connections</b>		
Details	<ul style="list-style-type: none"><li>• Group of air conditioners can be controlled by MELANS system controller (M-NET).</li></ul>	
Major Optional Parts Required	<ul style="list-style-type: none"><li>• MAC-333IF-E (interface)</li><li>• MELANS system controller</li><li>• PAC-SC51KUA (power supply unit)</li></ul>	<ul style="list-style-type: none"><li>• PAC-SF83MA-E (M-NET converter)</li><li>• MELANS system controller</li><li>• PAC-SC51KUA (power supply unit)</li></ul>

VARIATIONS FOR INDOOR UNITS (For SUY & PUY Series)				
	System Examples		Details	Major Optional Parts Required
	Wired remote controller	Wireless remote controller		
<b>A</b> <b>2-remote Controller Control</b> With two remote controllers, control can be performed locally and remotely from two locations.  * Set "Main" and "Sub" remote controllers.  (Example of 1 : 1 system)			<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 <b>PAR-31MAA/PAR-21MAA</b></li><li>• Wireless remote controller <b>PAR-SL97A-E</b> for PEY</li><li>• Wireless remote controller kit for PCY <b>PAR-SL94B-E</b></li></ul>
<b>B</b> <b>Operation Control by Level Signal</b> Air conditioner can be started/stopped remotely. In addition, On/Off operation by local remote controller can be prohibited/permitted.  (Example of 1 : 1 system x 2)			<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 <b>PAC-SE55RA-E</b></li><li>• Relay box (to be purchased locally)</li><li>• Remote control panel (to be purchased locally)</li></ul>
<b>C</b> <b>Operation Control by Pulse Signal</b>  (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 <b>PAC-SA88HA-E/PAC-725AD (10 pcs. x PAC-SA88HA-E)</b></li><li>• Relay box (to be purchased locally)</li><li>• Remote control panel (to be purchased locally)</li></ul>
<b>D</b> <b>Remote Display of Operating Status</b> Operating status can be displayed at a remote location.  (Example of 1 : 1 system)			<ul style="list-style-type: none"><li>• Operation/emergency signal can be received at a remote location (when channeled through the <b>PAC-SF40RM-E</b>→ no-voltage signal, when channeled through the <b>PAC-SA88HA-E</b> → 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 <b>PAC-SA88HA-E/PAC-725AD (10 pcs. x PAC-SA88HA-E)</b></li><li>• Relay box (to be purchased locally)</li><li>• Remote operation adapter <b>PAC-SF40RM-E</b></li></ul> <p><small>*Unable to use with wireless remote controller</small></p>
<b>E</b> <b>Timer Operation</b> Allows on/off operation with timer  *For control by an external timer, refer to <b>B</b> Operation Control by Level Signal.  (Example of 1 : 1 system)			<ul style="list-style-type: none"><li>• <b>Weekly Timer:</b> On/Off and up to 8 pattern temperatures can be set for each calendar day (initial setting).</li><li>• <b>On/Off Timer:</b> On/Off can be set once each within 72 hr in intervals of 5min.</li><li>• <b>Auto-off Timer:</b> Operation will stop after a preset time elapses. Set time can be changed from 30min to 4hr in 10min intervals.</li></ul> <p><small>*Simple Timer and Auto-off Timer cannot be used at the same time.</small></p>	Standard functions of <b>PAR-31MAA</b>

SPECIFICATIONS

4-way Ceiling-cassette (50Hz/60Hz)

Models			PLY-P18BA	PLY-P24BA	PLY-P30BA	PLY-P36BA	PLY-P42BA	PLY-P42BA	PLY-P48BA	PLY-P48BA	
Cooling capacity		kW	5.3 (2.8-5.4)	7.1 (3.6-8.9)	8.8 (4.1-9.7)	10.6 (4.1-10.7)	12.3 (6.2-14.1)		13.2 (6.6-15.0)		
Cooling capacity (rated)		BTU/h	18,000	24,000	30,000	36,000	42,000		45,000		
Total input		kW	1.47	2.02	2.36	3.13	3.68		4.31		
EER		W/W	3.61	3.51	3.73	3.39	3.34		3.06		
Indoor unit	Model name		PLY-P18BA	PLY-P24BA	PLY-P30BA	PLY-P36BA	PLY-P42BA	PLY-P42BA	PLY-P48BA	PLY-P48BA	
	Power supply	50Hz	1ph 220-240V								
		60Hz	1ph 220V								
	External finish		Munsell 6.4Y 8.9/0.4								
	Airflow (low-mid2-mid1-high)	CMM	12-13-14-16	14-16-18-20	20-22-25-28	24-26-29-32					
		CFM	425-460-495-565	495-565-635-705	705-775-885-990	850-920-1025-1130					
	External static pressure		0 (direct blow)								
	Operation control and thermostat		Remote control and Built-in								
	Noise level (low-mid2-mid1-high)		dB (A)	28-29-30-32	28-30-32-34	33-35-38-41	37-39-41-44				
	Unit drain pipe (outer diameter)		mm	32							
Dimensions (panel)	W	mm	840 (950)								
	D	mm	840 (950)								
		H	mm	258 (35)		298 (35)					
	Weight (panel)		kg	19 (6)	22 (6)	24 (6)	26 (6)				
Outdoor unit	Model name		SUY-KA18VA	SUY-KA24VA	SUY-KA30VA	SUY-KA36VA	PUY-P42VKA	PUY-P42YKA	PUY-P48VKA	PUY-P48YKA	
	Power supply	50Hz	1ph 220-240V					3ph 380-415V	1ph 220-240V	3ph 380-415V	
		60Hz	1ph 220V					3ph 380V	1ph 220V	3ph 380V	
	External finish		Munsell 3.0Y 7.8/1.1								
	Refrigerant (R410A) control		Liner expansion valve								
	Airflow	CMM (CFM)	34 (1200)	46 (1625)		51 (1800)	130 (4595)				
	Noise level	dB (A)	51	54	56	58	55	56			
		mm	800	840			1050				
	Dimensions	D	mm	285	330			330			
		H	mm	550	880			1338			
			mm	550	880			1338			
	Weight		kg	33	47	50	51	94	96	94	96
	Max. height difference		m	12	15			30			
	Max. piping length		m	20	30			50			
Pipe size (outer diameter)		mm	Liquid: 6.35 Gas: 12.5	Liquid: 9.52, Gas: 15.88			Liquid: 9.52, Gas: 15.88				
Chargeless piping length		m	7			30					

Ceiling-concealed (50Hz/60Hz)

Models			PEY-P18JA	PEY-P24JA	PEY-P30JA	PEY-P36JA	PEY-P42JA	PEY-P42JA	PEY-P48JA	PEY-P48JA	
Cooling capacity		kW	5.3 (2.8-5.4)	7.1 (3.6-8.9)	8.8 (4.1-9.7)	10.6 (4.1-10.7)	12.3 (6.2-14.1)		13.5 (6.6-15.0)		
Cooling capacity (rated)		BTU/h	18,000	24,000	30,000	36,000	42,000		46,000		
Total input		kW	1.57	2.02	2.5	3.33	3.84		4.41		
EER		W/W	3.38	3.51	3.52	3.18	3.20		3.06		
Indoor unit	Model name		PEY-P18JA	PEY-P24JA	PEY-P30JA	PEY-P36JA	PEY-P42JA	PEY-P42JA	PEY-P48JA	PEY-P48JA	
	Power supply	50Hz	1ph 220-240V								
		60Hz	1ph 220V								
	External finish		Galvanized sheet								
	Airflow (low-mid-high)	CMM	12-14.5-17	17.5-21-25	24-29-34	29.5-35.5-42					
		CFM	425-510-600	620-740-885	850-1025-1200	1040-1225-1485					
	External static pressure		Pa	35-50-70-100-125							
	Operation control and thermostat		Remote control and Built-in								
	Noise level (low-mid-high)		dB (A)	30-35-39	30-34-39	33-38-42	36-40-44				
	Unit drain pipe (outer diameter)		mm	32							
Dimensions	W	mm	900	1100	1400						
	D	mm	732								
	H	mm	250								
Weight		kg	27	29	38	39					
Outdoor unit	Model name		SUY-KA18VA	SUY-KA24VA	SUY-KA30VA	SUY-KA36VA	PUY-P42VKA	PUY-P42YKA	PUY-P48VKA	PUY-P48YKA	
	Power supply	50Hz	1ph 220-240V					3ph 380-415V	1ph 220-240V	3ph 380-415V	
		60Hz	1ph 220V					3ph 380V	1ph 220V	3ph 380V	
	External finish		Munsell 3.0Y 7.8/1.1								
	Refrigerant (R410A) control		Liner expansion valve								
	Airflow	CMM (CFM)	34 (1200)	46 (1625)		51 (1800)	130 (4595)				
	Noise level	dB (A)	51	54	56	58	55	56			
		mm	800	840			1050				
	Dimensions	D	mm	285	330			330			
		H	mm	550	880			1338			
		mm	550	880			1338				
	Weight		kg	33	47	50	51	94	96	94	96
	Max. height difference		m	12	15			30			
	Max. piping length		m	20	30			50			
Pipe size (outer diameter)		mm	Liquid: 6.35 Gas: 12.5	Liquid: 9.52, Gas: 15.88			Liquid: 9.52, Gas: 15.88				
Chargeless piping length		m	7			30					

Ceiling-suspended (50Hz/60Hz)

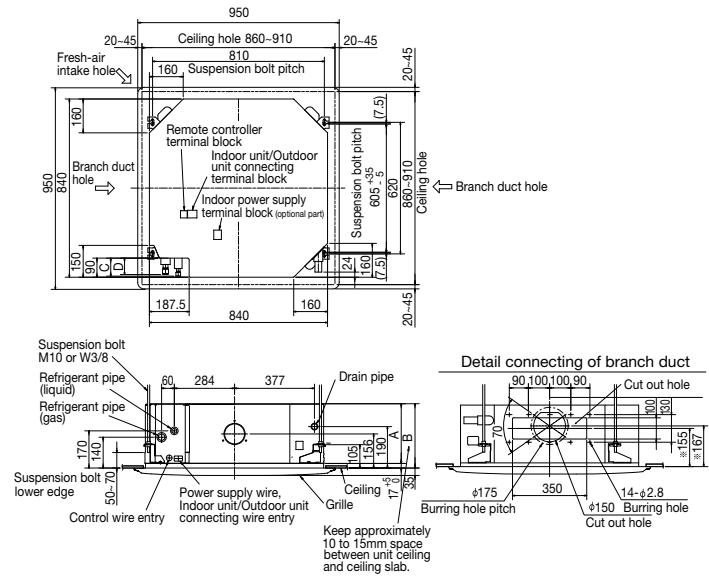
Models			PCY-P18KA	PCY-P24KA	PCY-P30KA	PCY-P36KA	PCY-P42KA	PCY-P42KA	PCY-P48KA	PCY-P48KA	
Cooling capacity		kW	5.3 (2.8-5.4)	7.1 (3.6-8.9)	8.8 (4.1-9.7)	10.6 (4.1-10.7)	12.3 (6.2-14.1)		13.5 (6.6-15.0)		
Cooling capacity (rated)		BTU/h	18,000	24,000	30,000	36,000	42,000		46,000		
Total input		kW	1.51	2.1	2.6	3.13	3.68		4.41		
EER		W/W	3.51	3.38	3.38	3.39	3.34		3.06		
Indoor unit	Model name		PCY-P18KA	PCY-P24KA	PCY-P30KA	PCY-P36KA	PCY-P42KA	PCY-P42KA	PCY-P48KA	PCY-P48KA	
	Power supply	50Hz	1ph 220-240V								
		60Hz	1ph 220V								
	External finish		Munsell 6.4Y 8.9/0.4								
	Airflow (low-mid2-mid1-high)	CMM	16-17-18-20	16-18-20-22	24-26-28-30	27-29-32-34					
		CFM	565-600-635-705	565-635-705-775	850-920-990-1060	955-1025-1130-1200					
	External static pressure		Pa	0 (direct blow)							
	Operation control and thermostat		Remote control and Built-in								
	Noise level (low-mid2-mid1-high)		dB (A)	34-36-38-40	34-36-40-42	39-41-43-45	42-44-46-48				
	Unit drain pipe (internal diameter)		mm	26							
	Dimensions	W	mm	1280			1600				
D		mm	680								
H		mm	230								
Weight		kg	32		37	40					
Outdoor unit	Model name		SUY-KA18VA	SUY-KA24VA	SUY-KA30VA	SUY-KA36VA	PUY-P42VKA	PUY-P42YKA	PUY-P48VKA	PUY-P48YKA	
	Power supply	50Hz	1ph 220-240V					3ph 380-415V	1ph 220-240V	3ph 380-415V	
		60Hz	1ph 220V					3ph 380V	1ph 220V	3ph 380V	
	External finish		Munsell 3.0Y 7.8/1.1								
	Refrigerant (R410A) control		Liner expansion valve								
	Airflow	CMM (CFM)	34 (1200)	46 (1625)		51 (1800)	130 (4595)				
	Noise level		dB (A)	51	54	56	58	55	56		
	Dimensions	W	mm	800	840			1050			
		D	mm	285	330			330			
		H	mm	550	880			1338			
	Weight		kg	33	47	50	51	94	96	94	96
Max. height difference		m	12	15			30				
Max. piping length		m	20	30			50				
Pipe size (outer diameter)		mm	Liquid: 6.35 Gas: 12.5	Liquid: 9.52, Gas: 15.88			Liquid: 9.52, Gas: 15.88				
Chargeless piping length		m	7					30			



# EXTERNAL DIMENSIONS

PLY-P18BA PLY-P24BA PLY-P30BA PLY-P36BA  
PLY-P42BA PLY-P48BA

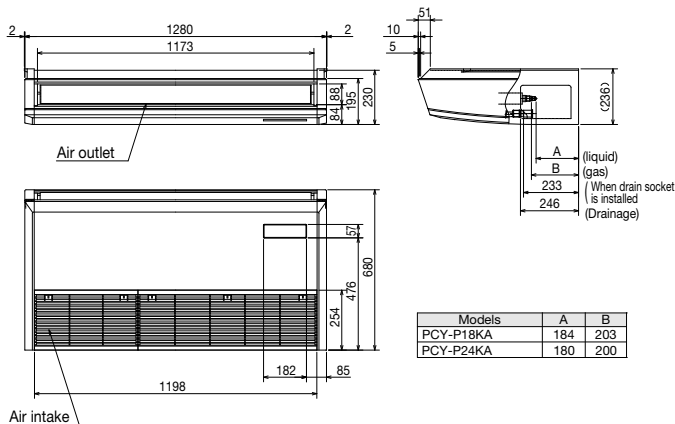
## INDOOR UNIT



Models	A	B	C	D
PLY-P18BA	241	258	80	74
PLY-P24BA			85	77
PLY-P30BA	281	298		
PLY-P36BA				
PLY-P42BA				
PLY-P48BA				

**PCY-P18KA PCY-P24KA**

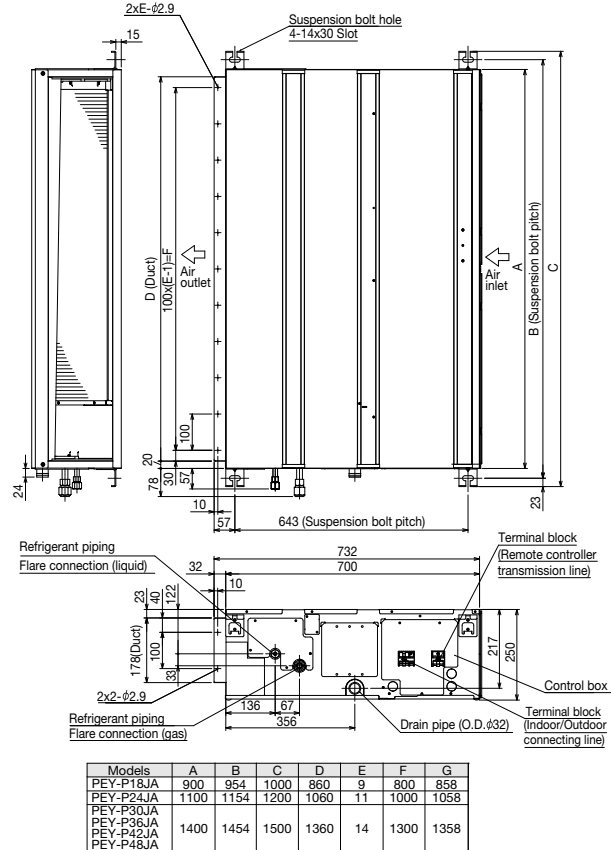
## INDOOR UNIT



Models	A	B
PCY-P18KA	184	203
PCY-P24KA	180	200

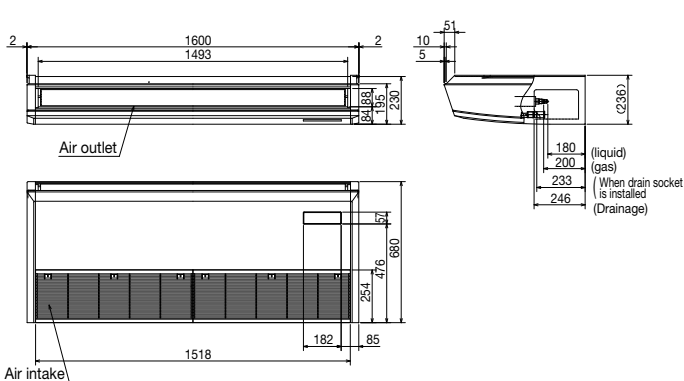
**PEY-P18JA PEY-P24JA PEY-P30JA PEY-P36JA  
PEY-P42JA PEY-P48JA**

## INDOOR UNIT

[illegible]

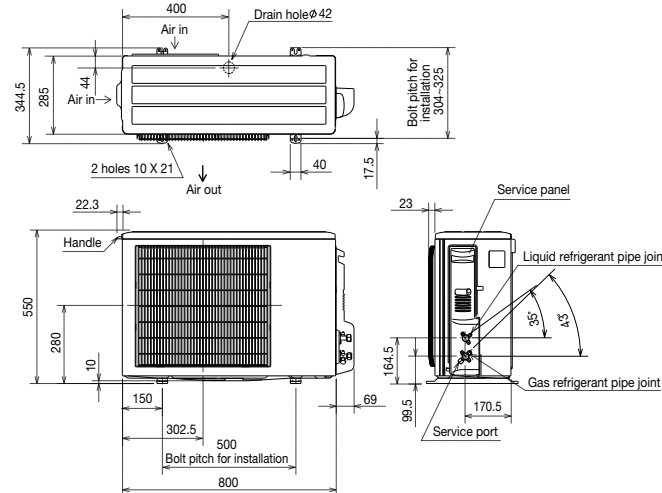
PCY-P30KA PCY-P36KA PCY-P42KA PCY-P48KA

## INDOOR UNIT



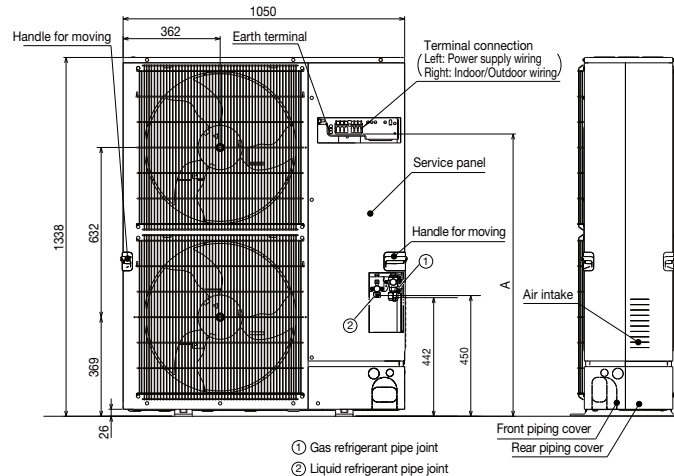
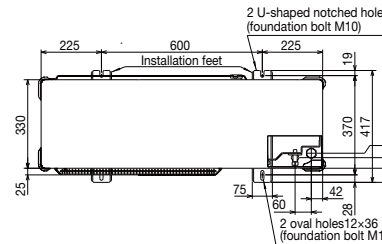
**SUY-KA18VA**

## OUTDOOR UNIT



**PUY-P42V/YKA PUY-P48V/YKA**

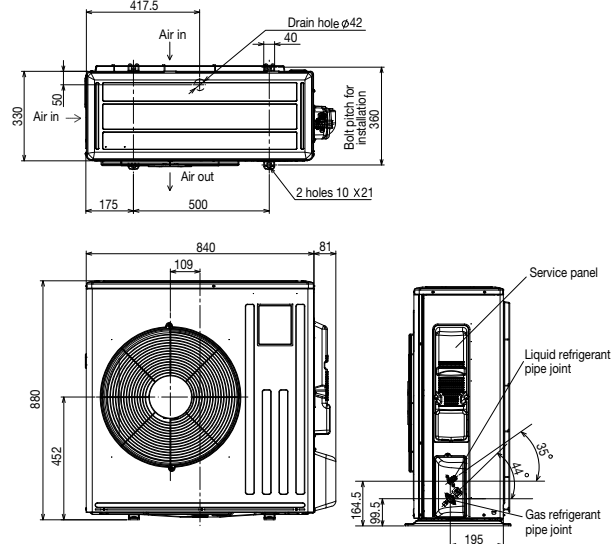
## OUTDOOR UNIT



Models	A
PUY-P42/48VKA	1052
PUY-P42/48YKA	982

**SUY-KA24VA SUY-KA30VA SUY-KA36VA**

## OUTDOOR UNIT



Notes for All Specifications

Rating conditions  
Cooling - Indoor: 27°C (80°F) DB, 19°C (66°F) WB  
Outdoor: 35°C (95°F) DB  
Refrigerant piping length (one-way): 7.5m (25ft)

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

	Indoor	Outdoor	
		18/24/30/36/42/48V	42/48Y
50Hz	Single-phase, 220-240V	Single-phase, 220-240V	Three-phase, 380-415V
60Hz	Single-phase, 220V	Single-phase, 220V	Three-phase, 380V

Guaranteed Operating Range

		SUY-KA	PUY-PKA
Cooling	Upper limit (DB)	46°C	46°C
	Lower limit (DB)	18°C	-5°C*

\*With the optional Air Protection Guide, operational at outdoor temperatures as low as -15°C 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.

Refrigerant Piping

Capacity	Between indoor and outdoor units		Pipe size (mm, outer dia.)	Thickness (mm)
	Max. height difference (m)	Max. piping length (m)		
SUY-KA18	12	20	Liquid: ø6.35 Gas: ø12.7	t 0.8 t 0.8
SUY-KA24/30/36	15	30	Liquid: ø9.52 Gas: ø15.88	t 0.8 t 1.0
PUY-P42V/YKA PUY-P48V/YKA	30	50	Liquid: ø9.52 Gas: ø15.88	t 0.8 t 1.0

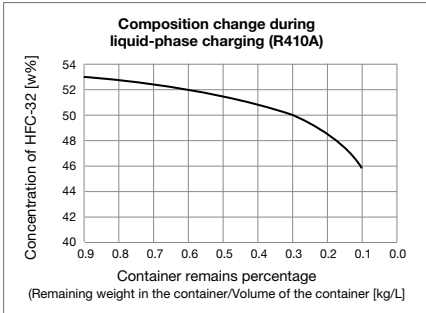
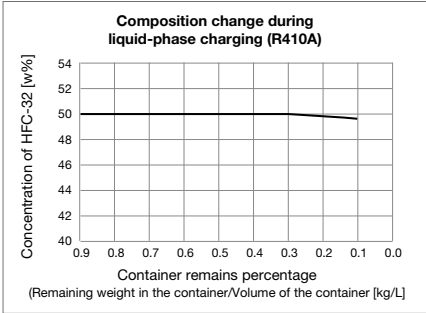
Refrigerant Requirements (R410A: kg)

Piping length	Factory charged	Additional charge									Calculation
	7m	10m	15m	20m	25m	30m	35m	40m	45m	50m	
SUY-KA18	1.2	0.05	0.12	0.2	—	—	—	—	—	—	Xg=15g/m×(length-7)m
SUY-KA24	2.0	0.06	0.16	0.26	0.36	0.36	—	—	—	—	Xg=20g/m×(length-7)m
SUY-KA30	2.1	0.06	0.16	0.26	0.36	0.46	—	—	—	—	
SUY-KA36	2.5	0.06	0.16	0.26	0.36	0.46	—	—	—	—	
PUY-P42V/YKA PUY-P48V/YKA	4.2	0	0	0	0	0	0.15	0.3	0.45	0.6	Xg=30g/m x (length-30)m

Properties of R410A and R22 Refrigerants

Chemical properties

R410A and R22 are chemically stable, low-toxin, non-flammable refrigerants. The relative specific gravity of R410A is greater than that of air. In the unlikely event that this refrigerant leaks into a closed room, it will accumulate low to the floor, causing a lack of oxygen in that air layer and possible result in an accident. Additionally, poisonous gas may be produced if R410A comes into contact with open flame. So please be certain to handle it only in well ventilated areas where the accumulation of leaking refrigerant can be prevented.



R410A is a near-azeotropic refrigerant blend of R32 and R125, so R410A can be handled in almost the same manner as a single-component refrigerant like R22. However, the composition between gas and liquid phases changed slightly when in a container like a cylinder. Therefore, charge R410 in the liquid phase.

	New refrigerant (HFCs)	Previous refrigerant (HCFCs)
	R410A	R22
Composition (wt%)	R32/R125 (50/50)	R22 (100)
Classification of refrigerant	Near-azeotropic	Single-component
Chlorine	No	Yes
Molecular weight	72.8	86.5
Boiling point (°C)	-51.4	-40.8
Vapor pressure (25°C, MPa) <gauge>	1,557/557	0.94
Saturated vapor density (25°C, kg/m³)	64	44.4
Inflammability	Non-flammable	Non-flammable
Ozone depletion potential (ODP)*1	0	0.055
Global warming potential (GWP)*2	1975	1700
Refrigerant charging method	Liquid phase from cylinder*3	Gas phase
Additional charging in case of leakage	Possible	Possible

\*1 Base: CFC11 is 0.  
\*2 Base: CO<sub>2</sub> is 0.  
\*3 Charging a liquid refrigerant rapidly may lock the compressor, so add the refrigerant gradually.

Pressure properties

R410A refrigerant has a higher pressure than R22 refrigerant.

Pressure (gauge)	R410A	R22
	MPa (gauge) / kgf / cm² (gauge)	MPa (gauge) / kgf / cm² (gauge)
Temperature (°C)		
-20	0.30 / 3.1	0.14 / 1.4
0	0.70 / 7.1	0.40 / 4.1
20	1.35 / 13.8	0.81 / 8.3
40	2.33 / 23.8	1.44 / 14.7
60	3.74 / 38.1	2.33 / 23.8
65	4.16 / 42.3	2.60 / 26.5

As the vapor pressure of R410A is 1.6 times that of R22 at a given temperature, perform charging at the time of installation using dedicated anti-high-pressure tools and materials for R410A. (Reference: Table of thermophysical properties by JRAIA, NISTREFPROP V5.10, Asahi Glass Co., Ltd. and others.)



Handling Precautions

Mixing of refrigerants

R410A is a refrigerant blend of HFC32 and HFC125. R22 has different properties from R410A. Therefore, never mix R410A and R22.

Pressure rise (R410A)

As the vapor pressure of R410A is 1.6 times higher than R22 at a given temperature, use dedicated extension pipes for R410A. Tools dedicated for R410A may also be required. Special care should be taken when charging units with R410A.

Control of moisture

If excessive moisture gets into the refrigerant system, it can cause capillary clogging, deteriorate compressor insulation, etc.

Control of contaminants

If waste, air, flux, mineral oil, etc. get into the refrigerant system, it accelerates the resolution or deterioration of the refrigerant oil, which causes capillary clogging, deterioration of compressor insulation, etc.



# Outdoor Unit

## Installation Location

• When installing a single outdoor unit

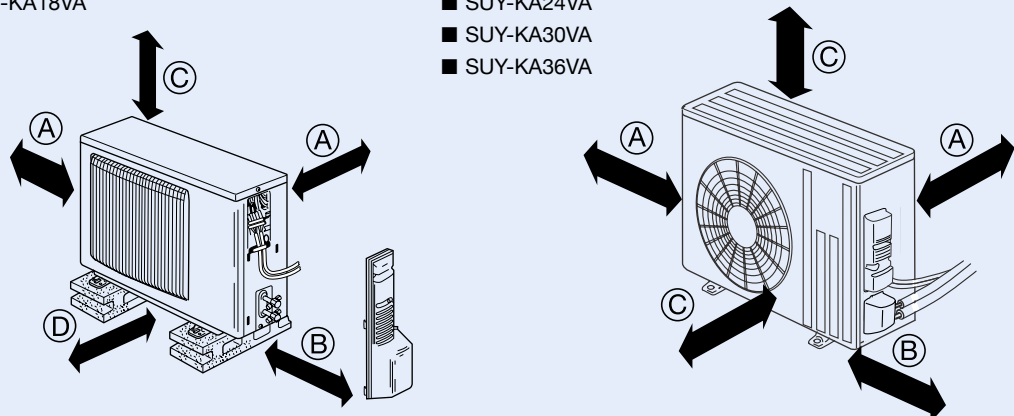
<S Series>

■ SUY-KA18VA

■ SUY-KA24VA

■ SUY-KA30VA

■ SUY-KA36VA

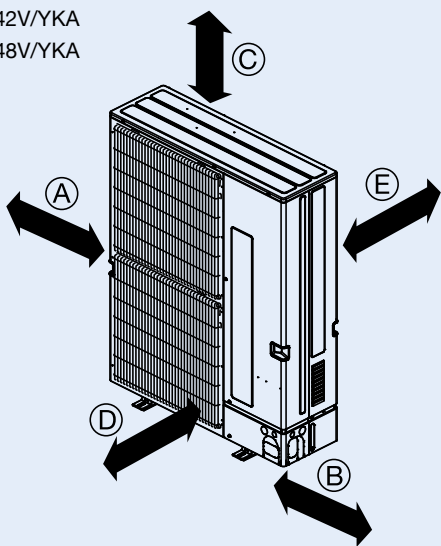


	SUY-KA18VA	SUY-KA24, 30, 36VA
(A)	100mm or more	
(B)	350mm or more	
(C)	100mm or more	500mm or more
(D)	200mm or more	—

<P Series>

■ PUY-P42V/YKA

■ PUY-P48V/YKA



	PUY-P42, 48V/YKA
(A)	15mm or more
(B)	15mm or more
(C)	Free
(D)	1,000mm or more
(E)	150mm or more

[Notice]

If there is any obstruction around the unit, check the condition details in the Data Book.

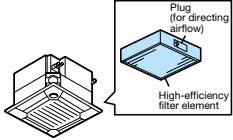
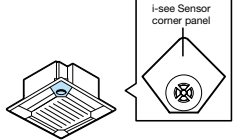
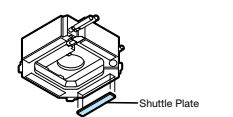
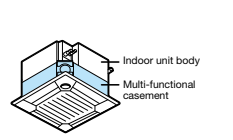
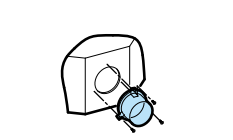
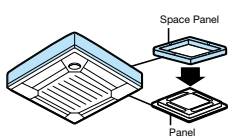
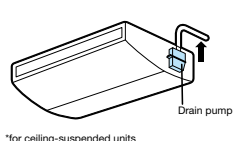
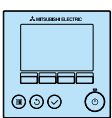
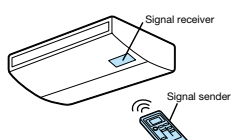
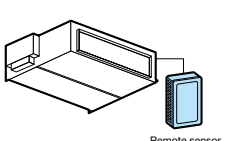
Optional Parts

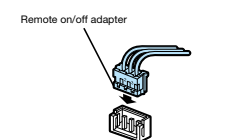
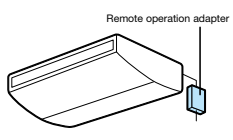
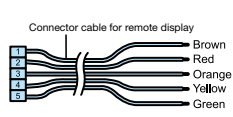
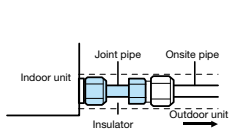
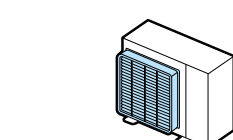
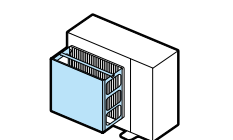
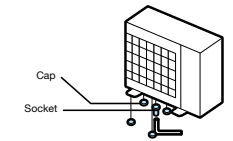
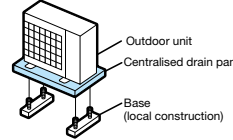
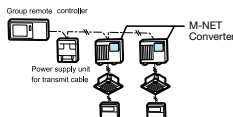
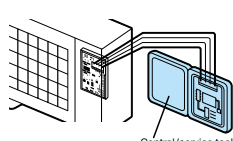
Part name	Model name	Application name
Drain pump	PAC-SH84DM-E	PCY-P24/30/36/42/48
	PAC-SH85DM-E	PCY-P18
Flange for fresh-air intake	PAC-SH65OF-E	PLY-P
M-NET and Terminal interface	MAC-333IF-E	All indoor units
Wireless remote controller	PAR-SL97A-E	PLY-P / PEY-P
Wireless remote controller signal receiver	PAR-SA9CA-E	PEY-P
	PAR-SA9FA-E	PLY-P
High-efficiency filter	PAC-SH89KF-E	PCY-P18/24
	PAC-SH90KF-E	PCY-P30/36/42/48
High-efficiency filter element	PAC-SH59KF-E	PLY-P
	PAC-KE92TB-E	PEY-P18
Filter box	PAC-KE93TB-E	PEY-P24
	PAC-KE94TB-E	PEY-P30/36/42/48
	PAC-SA1ME-E	PLY-P
i-see Sensor corner panel	PAC-SH51SP-E	PLY-P
Shutter plate	PAC-SH53TM-E	PLY-P
Multi-function casement	PAC-SE55RA-E	All indoor units
Remote On/Off adaptor	PAC-SF40RM-E	All indoor units
Remote operation adaptor	PAC-SE41TS-E	All indoor units
Remote sensor	PAC-SH48AS-E	PLY-P
Space panel	PAC-SA88HA-E	All indoor units
Connector cable for remote display	PAR-31MAA	All indoor units
	PAR-21MAA	All indoor units
Wired remote controller	PAR-SL94B-E	PCY-P
Wireless remote controller kit (Sender & Receiver)	PAC-725AD	All indoor units
Multiple remote controller adaptor	MAC-881SG	SUY-KA18
	MAC-886SG-E	SUY-KA24/30/36
Air discharge guide	MSDD-50TR-E	PUY-P48
Distribution pipe	PAC-SG73RJ-E	PUY-P42/48
	PAC-SG75RJ-E	PUY-P42/48
Joint pipe	PAC-SG82DR-E	PUY-P42/48
Filter dryer for liquid pipe	PAC-SH96SG-E	PUY-P42/48
Air outlet guide	PAC-SH95AG-E	PUY-P42/48
Air protection guide	PAC-SG61DS-E	PUY-P42/48
Drain socket	PAC-SH97DP-E	PUY-P42/48
Centralized drain pan	PAC-SF83MA-E	PUY-P42/48
M-Net converter	PAC-SK52ST	PUY-P42/48
Control/Service tool	PAC-SC36NA-E	PUY-P42/48
External/Input adapter		

⚠ Notice

- 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 air conditioners, use only the specified refrigerant (R410A) to charge the refrigerant lines. Do not mix R410A with any other refrigerant and do not allow air to remain in the lines. If air is mixed with the refrigerant, this may cause abnormal high pressure in the refrigerant lines and possibly result in an explosion or other hazard. 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, it could lead to a serious impediment to securing product safety.

Main Optional Parts

Part name	Description
<b>High-efficiency Filter Element</b> Element for high-efficiency filter. Removes fine dust particles from the air.	 <small>*For 4-way cassette units</small>
<b>i-see Sensor Corner Panel</b> Corner panel holding the i-see Sensor.	
<b>Shuttle Plate</b> Plate for blocking an air outlet of the 4-way cassette indoor unit.	
<b>Multi-functional Casement</b> Casement for fresh-air intake and attaching the high-efficiency filter element (optional).	
<b>Fresh-air Intake Duct Flange</b> Flange attachment for adding a duct to take in fresh air from outside.	 <small>*For 4-way cassette units</small>
<b>Space Panel</b> Decorative cover for installation when the ceiling height is low.	
<b>Drain Pump</b> Pumps drain water to a point higher than that where the unit is installed.	 <small>*for ceiling-suspended units</small>
<b>Wired Remote Controller</b> Advanced deluxe remote controller with full-dot liquid-crystal display and backlight. Equipped with convenient functions like night-setback.	
<b>Wireless Remote Controller Kit (Sender &amp; Receiver)</b> Handheld remote controller (signal sender) and receiver (signal receiver) for ceiling-suspended units.	
<b>Remote Sensor</b> Sensor to detect the room temperature at remote positions.	

Part name	Description
<b>Remote On/Off Adapter</b> Connector for receiving signals from the local system to control the on/off function.	
<b>Remote Operation Adapter</b> Adapter to display the operation status and control the on/off function from a distance.	
<b>Connector Cable for Remote Display</b> Connector used to display the operation status and control the on/off function from a distance.	
<b>Joint Pipe</b> Part for connecting refrigerant pipes of different diameters.	
<b>Air Discharge Guide</b> Changes the direction of air being exhausted from the outdoor unit.	
<b>Air Protection Guide</b> Protects the outdoor unit from the wind.	
<b>Drain Socket</b> A set of caps to cover unnecessary holes at the bottom of the outdoor unit, and a socket to guide drain water to the local drain pipe.	
<b>Centralised Drain Pan</b> Catches drain water generated by the outdoor unit.	
<b>M-NET Converter</b> Used to connect P Series A-control models to M-NET controllers.	
<b>Control/Service Tool</b> Monitoring tool to display operation and self-diagnosis data.	

MEMO



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