

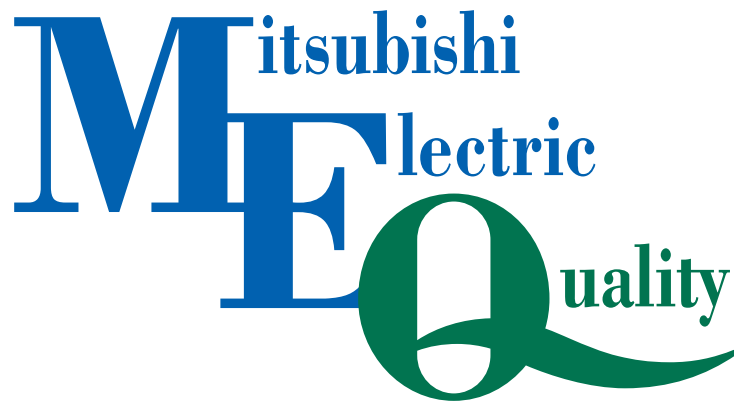


|  | 2.5hp   | 3hp  |
|--|---|--|
| <b>PLH-AAK</b><br>Power ceiling cassette |   | <b>PLH-3AAK</b><br>             |
| <b>PKH-FAK</b><br>Wall mounted           |   | <b>PKH-3FAK</b><br>             |
| <b>PCH-GAK</b><br>Ceiling suspended      |   | <b>PCH-3GAK</b><br>           |
| <b>PEH-EAK</b><br>Ceiling concealed      | <b>PEH-2.5EAK</b><br> | <b>PEH-3EAK</b><br>           |
| <b>OUTDOOR UNIT</b>                      | <br><b>PUH-2.5AKA</b> | <br><b>PUH-3VKA*/PUH-3YKA</b> |

\*PUH-3VKA is only for PEH series.

| 4hp   | 5hp   | 6hp  | Remote controller   | Contents    |
|---|---|--|---|-------------|
| <b>PLH-4AAK</b><br>     | <b>PLH-5AAK</b><br>    | <b>PLH-6AAK</b><br>    |    | <b>P.7</b>  |
| <b>PKH-4FAK</b><br>     |   |  |    | <b>P.8</b>  |
| <b>PCH-4GAK</b><br>   | <b>PCH-5GAK</b><br>  | <b>PCH-6GAK</b><br>  | <br>Optional  | <b>P.9</b>  |
| <b>PEH-4EAK</b><br>   | <b>PEH-5EAK</b><br>  | <b>PEH-6EAK</b><br>  |    | <b>P.10</b> |
| <br><b>PUH-4YKSA</b> | <br><b>PUH-5YKSA</b> | <br><b>PUH-6YKSA</b> |   |             |

# The MEQ Difference



High performance, low power consumption,  
and excellent reliability.

In today's competitive environment, simply meeting industry standards, however stringent, is not enough. Our aim is to exceed them. That's why when it comes to comfort, efficiency and durability: Mitsubishi Electric offers you a distinctive advantage. We call it MEQ – Mitsubishi Electric Quality. And it's a new benchmark that results in leading edge products, such as air conditioners that consume minimal power and protect your investment with a long operational lifespan. You can also enjoy superb reliability, as they're built to endure the punishment of extreme weather conditions year in and year out.

## *Mitsubishi Electric Offers Three Important Advantages*

### Comfort

#### True Comfort is Yours to Enjoy with Our Line-up

We create products designed to ensure that you and your surrounding will always be in a perfect harmony. Whichever model from our Mr. SLIM line-up you may choose for commercial use in restaurants, stores, or offices will be your guarantee of exceptional comfort in every and all operating condition.

### 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 operational life span. This is complemented by continuous introduction of new technologies and components that further reduce energy requirements and improve eco-friendliness.

### 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.

# The First Choice for Any and All Applications

Whatever your requirements may be, Mitsubishi Electric offers advanced split-type heat pumps perfect for any interior, any need. Significantly decreased noise levels enhance comfort while a long list of convenient features allow for easy installation and far less maintenance. A variety of system control configurations plus twin multi operation – where multiple indoor units can be connected to a single outdoor unit – make our units the first choice for the diverse applications of today.



## New Remote Controller

Renovating air conditioning communication  
by advanced MA Remote Controller newly developed

### Dot Liquid Crystal Display

Acknowledging the operation and control status at a glance. The large size display upgrades visual acknowledgement capability. The operation and control status can be understood promptly.

Display example [Operation mode]  
Dot liquid crystal display section



### Multi-language Display

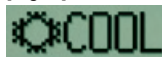
Multi-language

**8 languages  
can be displayed.**

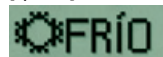
Display can be switched over for 8 kinds of language.

**1<sup>st</sup>**  
in the  
Industry!

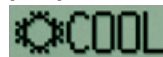
[English]



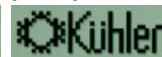
[Spanish]



[Italian]



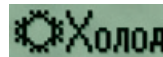
[German]



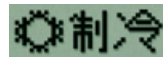
[French]



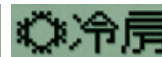
[Russian]



[Chinese]



[Japanese]



### Operation Control Function

Limiting the set  
temperature range

Air conditioning operation  
always within a limited  
temperature range

Auto Off timer

Automatic turning off of  
air conditioning operation

Operation locking

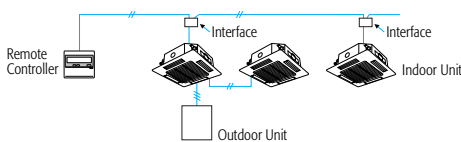

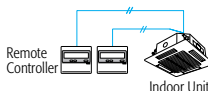
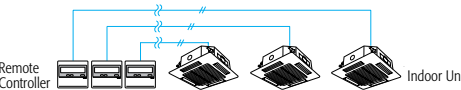
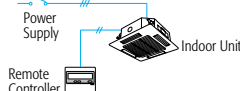
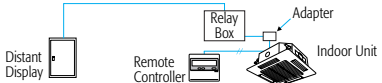
Preventing the random  
modification of setting

### Weekly Timer

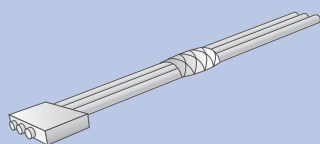
The function of the weekly timer equipped can change the set temperature in addition to the ON/OFF control. Up to 8 patterns can be set for each calendar day.



# Mr. SLIM New A/K Control System Configuration

| Control function                          | System configuration  | Features  | Necessary parts & equipment   |
|---|---|---|---|
| 1. Group control with 1 remote controller |    | <ul style="list-style-type: none"> <li>■ Sequential start adaptable</li> <li>■ Same mode operation</li> <li>■ Maximum no. of units connectable per group: 16-refrigerant (Outdoor 16 sets)</li> </ul> | <ul style="list-style-type: none"> <li>■ MAC-397IF-E (one for each outdoor unit)</li> </ul>   |
| 2. Combined Remote/local control          |    | <ul style="list-style-type: none"> <li>■ Simultaneous ON/OFF remote</li> <li>■ Operation can be switched between the distant controller panel and handheld controller</li> </ul>                      | <ul style="list-style-type: none"> <li>■ Timer adapter PAC-SE55RA-E (connect to CN32 on indoor circuit board)</li> <li>■ Relay box (on-site)</li> </ul>                             |
| 3. Operation with 2 remote controllers    |    | <ul style="list-style-type: none"> <li>■ 2 remote controllers can be connected to one group</li> <li>■ Control with the latest command</li> </ul>   | <ul style="list-style-type: none"> <li>■ Additional remote controller (option)</li> </ul>   |
| 4. Individual control from distant room   |    | <ul style="list-style-type: none"> <li>■ Extension of remote controller cord (MAX. 500m)</li> </ul>   | <ul style="list-style-type: none"> <li>■ Remote controller cord (on-site)</li> </ul>  |
| 5. Timer operation                        |   | <ul style="list-style-type: none"> <li>■ Weekly timer operation possible as standard (7 days-8 patterns)</li> </ul>   | —   |
|   |   | <ul style="list-style-type: none"> <li>■ Optional adapter allows operation with timer sold on the market</li> </ul>   | <ul style="list-style-type: none"> <li>■ Timer adapter PAC-SE55RA-E (connect to CN32 on indoor circuit board)</li> </ul>  |
| 6. Operation by external signal           |   | <ul style="list-style-type: none"> <li>■ Static signal receivable</li> </ul>  | <ul style="list-style-type: none"> <li>■ Timer adapter PAC-SE55RA-E (connect to CN32 on indoor circuit board)</li> </ul>  |
|   |   | <ul style="list-style-type: none"> <li>■ Pulse signal receivable</li> </ul>   | <ul style="list-style-type: none"> <li>■ Multiple remote controller adapter PAC-725AD (connect to CN51 on indoor circuit board)</li> </ul>  |
| 7. Power failure automatic recovery       |  | <ul style="list-style-type: none"> <li>■ Returns to the state before power failure as standard</li> </ul>   | <ul style="list-style-type: none"> <li>■ Function setting by remote controller</li> </ul>   |
| 8. Connection of remote display           |  | <ul style="list-style-type: none"> <li>■ Connectable to display panel in the field adapter</li> </ul>   | <ul style="list-style-type: none"> <li>■ Multiple remote controller adapter PAC-725AD (connect to CN51 on indoor circuit board)</li> <li>■ Relay OMRON made LY-1 (DC12V)</li> </ul> |

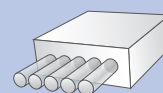
**PAC-SE55RA-E**  
Timer Adapter



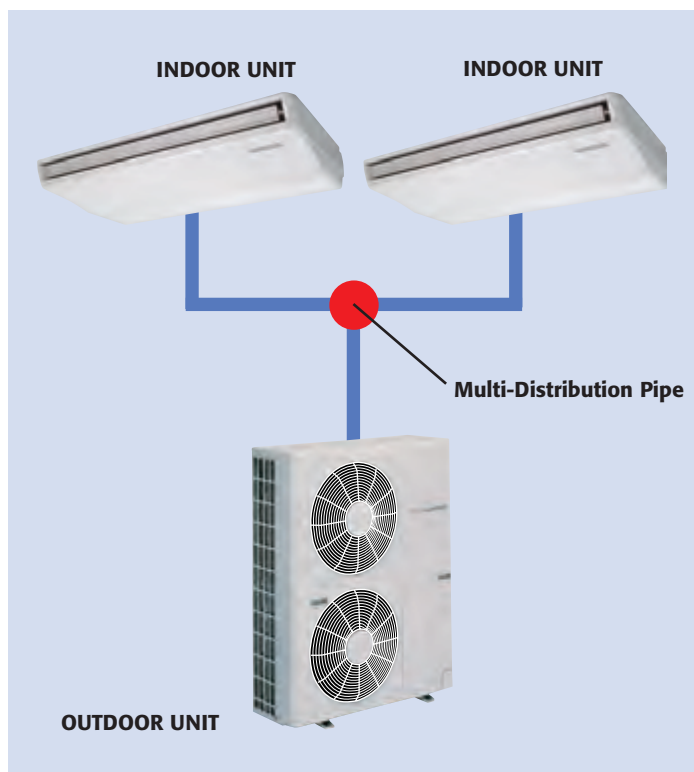
**MAC-397IF-E**  
MA & Control Terminal Interface



**PAC-725AD**  
Multiple Remote Controller Adapter  
(10 units of PAC-SA88HA-E)



## Twin Multi Operation



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

### Outdoor Unit and Twin-Multi Combinations

| Applicable indoor units | 2.5HP      | 3HP  |
|-------------------------|------------|--|
|                         | PEH-2.5EAK | PKH-3FAK<br>PCH-3GAK<br>PLH-3AAK<br>PEH-3EAK |
| Outdoor unit            | Twin-multi |  |
|                         | 50:50      |  |
| PUH-5YKSA               | 2.5 + 2.5  |  |
| PUH-6YKSA               | 3 + 3      |  |
| Multi-distribution pipe | SDD-50S-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 all units.

## Mr. SLIM Convenient Remote Controller

### Advanced MA remote controller

#### Wired remote controller\*



- DOT LIQUID CRYSTAL display
- MULTI-LANGUAGE display
- OPERATION CONTROL function
- WEEKLY TIMER

\*Please refer to page 4.

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

#### Wireless remote controller for PLH-AAK

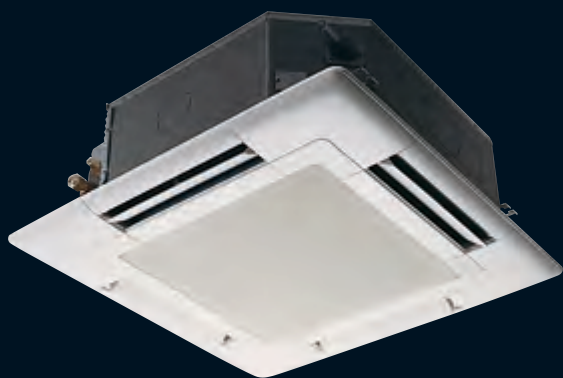


- **FAN SPEED SELECT button**  
Used to change fan speed.
- **Fan speed indicator**  
Displays the fan speed setting (HIGH or LOW).
- **VANE CONTROL button**  
Used to change airflow direction.
- **HOUR and MINUTE buttons**  
Used to set the time and timer settings.
- **MODE SELECTION button**  
Used to select operating modes – Cool, Dry, and Heat, and Auto.
- **TIMER button/RESET button**
- **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.

# PLH-AAK

## SERIES

PLH-3AAK PLH-4AAK PLH-5AAK PLH-6AAK



### INDEX

Specifications .....p.11  
Option .....p.13

### Design uniformity improves installation flexibility

From the smallest 3HP unit to the largest 6HP model, the new high-power ceiling cassettes offer a uniformly square 950 x 950mm width and depth design. Thanks to the uniformity of the panel size, planning for unit positioning in any room is enhanced and the installation of different capacity models within the same floor space is made possible.

### Unit height of only 258mm [PLH-3]

The new high-power ceiling cassette models boast slim body height for smooth and aesthetic installation even in limited ceiling plenum applications.



PLH-3AAK  
**258mm**  
(40mm less than conventional models)

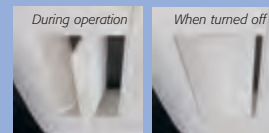
PLH-4/5/6AAK  
**298mm**

### 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 fixed position.

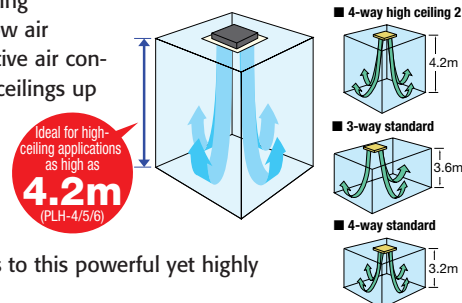
#### Vane shutter closes automatically



### Wide-flow air outlet

The new high-power ceiling cassettes offer a wide-flow air outlet that enables effective air conditioning of atrium-type ceilings up to 4.2 meters 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.



#### Specifications according to ceiling height and number of vents

|       | PLH-3    |                |                | PLH-4/5/6 |                |                |
|-------|----------|----------------|----------------|-----------|----------------|----------------|
|       | Standard | High ceiling 1 | High ceiling 2 | Standard  | High ceiling 1 | High ceiling 2 |
| 4-way | 2.7      | 3.0            | 3.5            | 3.2       | 3.6            | 4.2            |
| 3-way | 3.0      | 3.3            | 3.5            | 3.6       | 4.0            | 4.2            |
| 2-way | 3.3      | 3.5            | —              | 4.0       | 4.2            | —              |

\* Optional air outlet shutter plate (PAC-SG06SP-E) is necessary for two- or three-way airflow settings.

### Features at-a-glance

| Installation & Maintenance                       | Comfort                               | Others                                    |
|--|---------------------------------------|---|
| • Chargeless system                              | • Auto-angle airflow                  | • System control                          |
| • Compact design                                 | • Versatile airflow                   | • Twin-multi operation                    |
| • Drain water lift-up (850mm)                    | • 72 airflow patterns                 | • Auto vane shutter                       |
| • Handy corner-pocket                            | • Smudge/draft free                   | • Auto restart                            |
| • Long-life filter (2500 hrs.)                   | • High ceiling application            | • Fresh air intake                        |
| • Self-diagnostic function                       | • Computerized dehumidifier           | • Outdoor unit operating range up to 46°C |
| • Filter indicator (For wired remote controller) | • Quiet operation                     |   |
| • Flockless vanes                                | • Bacteria- and mold-resistant filter |   |



# PKH-FAK

## SERIES

PKH-3FAK PKH-4FAK



### INDEX

|                      |      |
|----------------------|------|
| Specifications ..... | p.11 |
| Option .....         | p.13 |

### Auto-flap shutter

When the unit is turned off, the shutter closes automatically over the air outlet to enhance the stylish design. The shutter also functions as a flap to adjust airflow angle to ensure that comforting air reaches every corner of the room.



### Enhanced noise suppression

Low-noise operation has been achieved through the introduction of a "near-silent" fan and a design which minimises airflow resistance.

| Model | Sound pressure level (Lo/Hi) |
|-------|------------------------------|
| PKH-3 | 39/45                        |
| PKH-4 | 41/46                        |

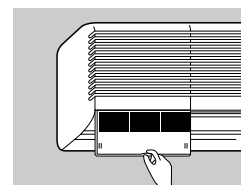
(dB)

### Multi-directional piping

To reduce installation time, drain piping can be connected from left and right. Refrigerant piping can also be connected from the rear, left, right and base of the unit.

### Easy removable filter

Convenient thumbscrews on the filters enable the filters to be quickly removed for easier cleaning.



### Back plate installation guide

To save time and effort, the back plate installation guide provides clear instructions on installation positions. The enlarged back plate secures the unit firmly to the wall, while the support piece which lifts the unit makes the left-side piping work much easier.

### Drain lift-up mechanism (optional)

For greater installation flexibility, the drain water pipe lift-up mechanism has been raised 800mm from the base of the unit.



### Features at-a-glance

| Installation & Maintenance   | Comfort  | Others   |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Chargeless system</li> <li>• Easy removable filter</li> <li>• Drain water lift-up (800mm)*</li> <li>• 4-way multi directional piping</li> <li>• Self-diagnostic function</li> </ul> | <ul style="list-style-type: none"> <li>• Auto-angle airflow</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-flap shutter</li> <li>• Outdoor unit operating range up to 46°C</li> </ul> |

\*Optional

# PCH-GAK

## SERIES

PCH-3GAK PCH-4GAK  
PCH-5GAK PCH-6GAK



### INDEX

Specifications .....p.12  
Option .....p.13

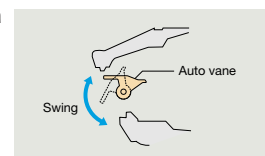


### Extra slim, extra stylish

Sleek and slim with stylishly curved lines, the PCH-GAK Series blends right into any interior. It also features a single air outlet with an auto vane that closes like a shutter when the unit is turned off to enhance overall appearance.

### Innovative auto vane system

The auto vane system swings up and down automatically to distribute air more evenly throughout the room.



### Quiet and comfortable

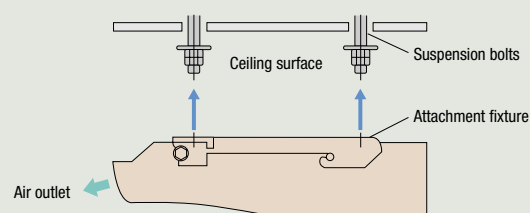
Smoother airflow, an improved air vent design, and a slimmer fan combine to provide exceptionally quiet operation — a mere 43dB on high and 37dB on low (PCH-3GAK).

### New direct suspension system

For easier installation, the PCH-GAK Series features a new direct suspension system that makes it unnecessary to remove nuts and bolts from the main body. A one-touch suspension system is also available.

#### Direct suspension with attachment fixture attached

1. Leave attachment fixture attached to main unit.
2. Suspend the attachment fixture from the suspension bolts.
3. Simply tighten the nuts to secure the unit.



### Piping flexibility simplifies installation

All piping, including those related to drainage, can be connected from the right, rear and top of the unit. This provides greater flexibility in selecting piping layout and installation locations.

### Flockless vanes

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

### Fan phase control plus microprocessor control allow airflow settings to match ceiling height.

### Drain water lift-up mechanism can be pre-installed (optional).

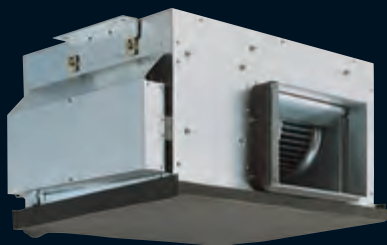
### Features at-a-glance

| Installation & Maintenance   | Comfort  | Others   |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Chargeless system</li> <li>• New direct suspension system</li> <li>• Drain water lift-up (500mm)*</li> <li>• Flexible piping</li> <li>• Long-life filter (2500 hrs.)</li> <li>• Washable filter*</li> <li>• Self-diagnostic function</li> </ul> | <ul style="list-style-type: none"> <li>• Auto swing</li> <li>• High ceiling application</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 operating range up to 46°C</li> </ul> |

\*Optional

# PEH-EAK S E R I E S

PEH-2.5EAK PEH-3EAK  
PEH-4EAK PEH-5EAK PEH-6EAK



PEH-2.5EAK  
PEH-3EAK  
PEH-4EAK



PEH-5EAK  
PEH-6EAK

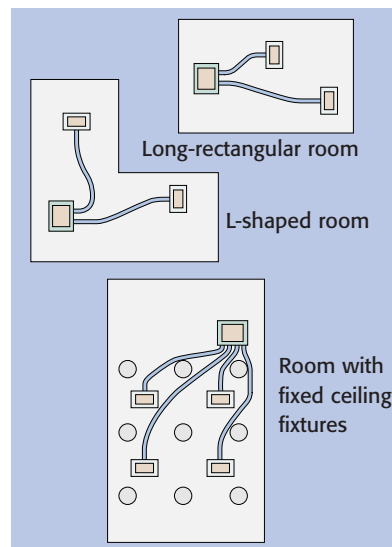


## INDEX

Specifications .....p.12  
Option .....p.13

## Limitless installation possibilities

Offering all the benefits of split-type models plus other important advantages, the PEH-EAK Series is not only easy to install but also very versatile. For example, the distance between the air-intake and air-outlet vents can be varied to allow airflow to be positioned in the optimum location.



## Computerized dehumidification

The computerized dehumidifier mode – where fan speed is controlled precisely – increases dehumidification volume while improving dehumidifying efficiency.



## 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 operating range up to 46°C</li> </ul> |

PLH-AAK POWER CEILING CASSETTE

| Models        |                              |      | PLH-3AAK   |                 | PLH-4AAK   |           | PLH-5AAK  |           | PLH-6AAK  |         |  |
|---------------|------------------------------|------|--|-----------------|--|-----------|-----------|-----------|-----------|---------|--|
| Function      |                              |      | Cooling  | Heating         | Cooling  | Heating   | Cooling   | Heating   | Cooling   | Heating |  |
| Capacity      |                              |      | 7,700  | 8,400           | 9,700  | 10,400    | 12,400    | 14,000    | 14,000    | 16,100  |  |
| Total input   |                              |      | kW   | 3.32            | 3.11   | 3.46      | 3.45      | 4.51      | 4.46      | 4.92    |  |
| COP           |                              |      | W/W  | 2.32            | 2.70   | 2.80      | 3.01      | 2.75      | 3.14      | 3.27    |  |
| Indoor unit   | Model name                   |      | PLH-3AAK   |                 | PLH-4AAK   |           | PLH-5AAK  |           | PLH-6AAK  |         |  |
|               | External finish              |      | Galvanized sheets with gray heat insulation  |                 |  |           |           |           |           |         |  |
|               | Power supply                 |      | Single phase, 50Hz, 240V   |                 |  |           |           |           |           |         |  |
|               | Airflow (Lo-Hi)              |      | I/s  | 250 – 333       |  | 333 – 467 |           | 367 – 500 |           |         |  |
|               | External static pressure     |      | Pa (mmAq)  | 0 (direct blow) |  |           |           |           |           |         |  |
|               | Sound pressure level (Lo-Hi) |      | dB   | 28 – 34         |  | 33 – 41   |           | 35 – 43   |           | 37 – 45 |  |
|               | Dimensions                   | W mm | 840  |                 |  |           |           |           |           |         |  |
|               |                              | D mm | 840  |                 |  |           |           |           |           |         |  |
|               |                              | H mm | 258  |                 | 298  |           |           |           |           |         |  |
| Weight        |                              | kg   | 24   |                 | 30   |           | 30        |           | 32        |         |  |
| Indoor grille | External finish              |      | Munsell 0.70Y 8.59/0.97  |                 |  |           |           |           |           |         |  |
|               | Dimensions                   | W mm | 950  |                 |  |           |           |           |           |         |  |
|               |                              | D mm | 950  |                 |  |           |           |           |           |         |  |
|               |                              | H mm | 30   |                 |  |           |           |           |           |         |  |
|               | Weight                       |      | kg   | 5               |  |           |           |           |           |         |  |
| Outdoor unit  | Model name                   |      | PUH-3YKA   |                 | PUH-4YKSA  |           | PUH-5YKSA |           | PUH-6YKSA |         |  |
|               | External finish              |      | Munsell 5Y 7/1   |                 |  |           |           |           |           |         |  |
|               | Power supply                 |      | 3-phase 50Hz, 415V (4 wires)   |                 |  |           |           |           |           |         |  |
|               | Refrigerant (R-22) control   |      | Capillary tube   |                 |  |           |           |           |           |         |  |
|               | Compressor output            |      | kW   | 2.4             |  | 2.7       |           | 3.5       |           | 4.0     |  |
|               | Protection devices           |      | Internal thermostat, HP switch / thermal relay, thermal switch, anti-phase protector |                 | Thermal relay, thermal switch, HP switch, anti-phase protector |           |           |           |           |         |  |
|               | Airflow                      |      | I/s  | 833             |  | 1,584     |           |           | 1,667     |         |  |
|               | Crankcase heater             |      | W  | 38              |  |           |           |           |           |         |  |
|               | Sound pressure level         |      | dB   | 52              |  | 54        |           | 55        |           | 56      |  |
|               | Sound power level            |      | dB   | 66              |  | 69        |           | 70        |           | 71      |  |
|               | Dimensions                   | W mm | 870  |                 |  |           | 970       |           |           |         |  |
|               |                              | D mm | 295 + 24   |                 |  |           | 345 + 24  |           |           |         |  |
|               |                              | H mm | 850  |                 | 1,258  |           |           |           |           |         |  |
|               | Weight                       |      | kg   | 75              |  | 94        |           | 114       |           | 117     |  |

PKH-FAK WALL MOUNTED

| Models       |                              | PKH-3FAK  |                 | PKH-4FAK   |         |  |
|--------------|------------------------------|---|-----------------|--|---------|--|
| Function     |                              | Cooling   | Heating         | Cooling  | Heating |  |
| Capacity     |                              | 7,900   | 9,100           | 9,500  | 10,700  |  |
| Total input  |                              | 3.25  | 3.04            | 3.31   | 3.30    |  |
| COP          |                              | 2.43  | 3.00            | 2.87   | 3.24    |  |
| Indoor unit  | Model name                   | PKH-3FAK  |                 | PKH-4FAK   |         |  |
|              | External finish              | Munsell 3.4Y 7.7/0.8  |                 |  |         |  |
|              | Power supply                 | Single phase, 50Hz, 240V  |                 |  |         |  |
|              | Airflow (Lo-Hi)              | I/s   | 250 – 333       | 367 – 467  |         |  |
|              | External static pressure     | Pa (mmAq)   | 0 (direct blow) |  |         |  |
|              | Sound pressure level (Lo-Hi) | dB  | 39 – 45         | 41 – 46  |         |  |
|              | Dimensions                   | W mm  | 1,400           | 1,680  |         |  |
|              |                              | D mm  | 235             |  |         |  |
|              |                              | H mm  | 340             |  |         |  |
| Weight       | kg                           | 24  | 28              |  |         |  |
| Outdoor unit | Model name                   | PUH-3YKA  |                 | PUH-4YKSA  |         |  |
|              | External finish              | Munsell 5Y 7/1  |                 |  |         |  |
|              | Power supply                 | 3-ph., 50Hz, 415V (4 wires)   |                 |  |         |  |
|              | Refrigerant (R-22) control   | Capillary tube  |                 |  |         |  |
|              | Compressor output            | kW  | 2.4             | 2.7  |         |  |
|              | Protection devices           | Internal thermostat, HP switch/thermal relay, thermal switch, HP switch, anti-phase protector |                 | Thermal relay, thermal switch, HP switch, anti-phase protector |         |  |
|              | Airflow                      | I/s   | 833             | 1,584  |         |  |
|              | Crankcase heater             | W   | 38              |  |         |  |
|              | Sound pressure level         | dB  | 52              | 54   |         |  |
|              | Sound power level            | dB  | 66              | 69   |         |  |
|              | Dimensions                   | W mm  | 870             |  |         |  |
|              |                              | D mm  | 295 + 24        |  |         |  |
|              |                              | H mm  | 850             | 1,258  |         |  |
| Weight       | kg                           | 75  | 94              |  |         |  |

# PCH-GAK CEILING SUSPENDED

| Models       |                              |      | PCH-3GAK  |                 | PCH-4GAK   |         | PCH-5GAK   |         | PCH-6GAK  |         |  |
|--------------|------------------------------|------|---|-----------------|--|---------|--|---------|-----------|---------|--|
| Function     |                              |      | Cooling   | Heating         | Cooling  | Heating | Cooling  | Heating | Cooling   | Heating |  |
| Capacity     |                              | W    | 7,600   | 8,500           | 10,000   | 10,450  | 12,400   | 13,900  | 14,500    | 15,000  |  |
| Total input  |                              | kW   | 3.28  | 3.07            | 3.36   | 3.35    | 4.45   | 4.40    | 4.97      | 4.82    |  |
| COP          |                              | W/W  | 2.32  | 2.77            | 2.98   | 3.12    | 2.79   | 3.16    | 2.92      | 3.11    |  |
| Indoor unit  | Model name                   |      | PCH-3GAK  |                 | PCH-4GAK   |         | PCH-5GAK   |         | PCH-6GAK  |         |  |
|              | External finish              |      | Munsell 0.70Y 8.59/0.97   |                 |  |         |  |         |           |         |  |
|              | Power supply                 |      | Single phase, 50Hz, 240V  |                 |  |         |  |         |           |         |  |
|              | Airflow (Lo-Hi)              | l/s  | 233 – 300   |                 | 333 – 417  |         | 450 – 567  |         |           |         |  |
|              | External static pressure     |      | Pa (mmAq)   | 0 (direct blow) |  |         |  |         |           |         |  |
|              | Sound pressure level (Lo-Hi) |      | dB  | 37 – 43         |  | 40 – 45 |  | 41 – 46 |           | 42 – 48 |  |
|              | Dimensions                   | W mm | 1,310   |                 |  |         | 41 – 46  |         | 42 – 48   |         |  |
|              |                              | D mm | 680   |                 |  |         |  |         |           |         |  |
|              |                              | H mm | 210   |                 |  |         | 270  |         |           |         |  |
| Weight       |                              | kg   | 34  |                 | 37   |         | 43   |         | 45        |         |  |
| Outdoor unit | Model name                   |      | PUH-3YKA  |                 | PUH-4YKSA  |         | PUH-5YKSA  |         | PUH-6YKSA |         |  |
|              | External finish              |      | Munsell 5Y 7/1  |                 |  |         |  |         |           |         |  |
|              | Power supply                 |      | 3-ph., 50Hz, 415V (4 wires)   |                 |  |         |  |         |           |         |  |
|              | Refrigerant (R-22) control   |      | Capillary tube  |                 |  |         |  |         |           |         |  |
|              | Compressor output            |      | kW  | 2.4             |  | 2.7     |  | 3.5     |           | 4.0     |  |
|              | Protection devices           |      | Internal thermostat, HP switch/thermal relay, thermal switch, HP switch, anti-phase protector |                 | thermal relay, thermal switch, HP switch, anti-phase protector |         | Internal thermostat, thermal switch, HP switch, anti-phase protector |         |           |         |  |
|              | Airflow                      |      | l/s   | 833             |  | 1,584   |  | 1,667   |           |         |  |
|              | Crankcase heater             |      | W   | 38              |  |         |  |         |           |         |  |
|              | Sound pressure level         |      | dB  | 52              |  | 54      |  | 55      |           | 56      |  |
|              | Sound power level            |      | dB  | 66              |  | 69      |  | 70      |           | 71      |  |
|              | Dimensions                   | W mm | 870   |                 |  |         | 970  |         |           |         |  |
|              |                              | D mm | 295 + 24  |                 |  |         | 345 + 24   |         |           |         |  |
|              |                              | H mm | 850   |                 |  |         | 1,258  |         |           |         |  |
|              | Weight                       |      | kg  | 75              |  | 94      |  | 114     |           | 117     |  |

# PEH-EAK CEILING CONCEALED

| Models       |                              |     | PEH-2.5EAK                       |         | PEH-3EAK  |         | PEH-4EAK   |           | PEH-5EAK   |           | PEH-6EAK  |             |  |
|--------------|------------------------------|-----|----------------------------------|---------|---|---------|--|-----------|--|-----------|-----------|-------------|--|
| Function     |                              |     | Cooling                          | Heating | Cooling   | Heating | Cooling  | Heating   | Cooling  | Heating   | Cooling   | Heating     |  |
| Capacity     |                              | W   | 6,700                            | 6,800   | 8,000   | 8,300   | 9,700  | 10,400    | 12,400   | 13,000    | 15,200    | 17,400      |  |
| Total input  |                              | kW  | 2.90                             | 2.71    | 3.47  | 3.33    | 3.64   | 3.63      | 4.86   | 4.81      | 5.81      | 5.66        |  |
| COP          |                              | W/W | 2.31                             | 2.51    | 2.31  | 2.49    | 2.66   | 2.87      | 2.55   | 2.70      | 2.62      | 3.07        |  |
| Indoor unit  | Model name                   |     | PEH-2.5EAK                       |         | PEH-3EAK  |         | PEH-4EAK   |           | PEH-5EAK   |           | PEH-6EAK  |             |  |
|              | External finish              |     | Galvanized sheets                |         |   |         |  |           |  |           |           |             |  |
|              | Power supply                 |     | Single phase, 50Hz, 240V         |         |   |         |  |           |  |           |           |             |  |
|              | Airflow (Lo-Hi)              |     | I/s 367 – 450                    |         |   |         |  | 450 – 567 |  | 567 – 700 |           | 800 – 1,000 |  |
|              | External static pressure     |     | Pa (mmAq) 127 (12.7) at Hi-notch |         |   |         |  |           |  |           |           |             |  |
|              | Sound pressure level (Lo-Hi) |     | dB 52 – 55                       |         |   |         |  | 54 – 58   |  |           | 51 – 55   |             |  |
|              | Dimensions                   |     | W mm 785                         |         |   |         |  | 1,055     |  | 1,255     |           | 1,415       |  |
|              |                              |     | D mm 690                         |         |   |         |  |           |  |           |           |             |  |
|              |                              |     | H mm 428                         |         |   |         |  |           |  |           |           |             |  |
| Weight       |                              | kg  | 45                               |         | 46  |         | 58   |           | 72   |           | 73        |             |  |
| Outdoor unit | Model name                   |     | PUH-2.5AKA                       |         | PUH-3YKA / PUH-3YKA   |         | PUH-4YKSA  |           | PUH-5YKSA  |           | PUH-6YKSA |             |  |
|              | External finish              |     | Munsell 5Y 7/1                   |         |   |         |  |           |  |           |           |             |  |
|              | Power supply                 |     | Single ph., 50Hz, 240V           |         | Single ph., 50Hz, 240V/ 3-ph., 50Hz, 415V (4 wires)   |         | 3-ph., 50Hz, 415V (4 wires)                                    |           |  |           |           |             |  |
|              | Refrigerant (R-22) control   |     | Capillary tube                   |         |   |         |  |           |  |           |           |             |  |
|              | Compressor output            |     | kW 2.0                           |         | 2.2 / 2.4   |         | 2.7  |           | 3.5  |           | 4.0       |             |  |
|              | Protection devices           |     | Internal thermostat, HP switch   |         | Internal thermostat, HP switch/thermal relay, thermal switch, HP switch, anti-phase protector |         | Thermal relay, thermal switch, HP switch, anti-phase protector |           | Internal thermostat, thermal switch, HP switch, anti-phase protector |           |           |             |  |
|              | Airflow                      |     | I/s 833                          |         |   |         | 1,584  |           |  |           | 1,667     |             |  |
|              | Crankcase heater             |     | W 38                             |         |   |         |  |           |  |           |           |             |  |
|              | Sound pressure level         |     | dB 52                            |         |   |         | 54   |           | 55   |           | 56        |             |  |
|              | Sound power level            |     | dB 66                            |         |   |         | 69   |           | 70   |           | 71        |             |  |
|              | Dimensions                   |     | W mm 870                         |         |   |         |  |           | 970  |           |           |             |  |
|              |                              |     | D mm 295 + 24                    |         |   |         |  |           | 345 + 24   |           |           |             |  |
|              |                              |     | H mm 850                         |         |   |         |  |           | 1,258  |           |           |             |  |
|              | Weight                       |     | kg 68                            |         | 75  |         | 94   |           | 114  |           | 117       |             |  |



GENERAL SPECIFICACIONS FOR ALL MODELS

Notes for All Specifications

- Rating conditions: Cooling - Indoor 27°CDB, 19°CWB; Outdoor 35°CDB  
Heating - Indoor 20°CDB ; Outdoor 7°CDB,6°CWB
- Data based on indicated voltage Indoor unit : 1-ph, 240V, 50Hz  
Outdoor unit: 1-ph, 240V, 50Hz/3-ph, 415V, 50Hz
- Refrigerant piping length (one-way): 5m (16ft)
- Refrigerant charge is suitable for 5m piping length.

Guaranteed Operating Range

| Limits  |       | Indoors            | Outdoors             |
|---------|-------|--------------------|----------------------|
| Cooling | Lower | 21°C DB, 15.5°C WB | -5°C DB              |
|         | Upper | 35°C DB, 22.5°C WB | 46°C DB              |
| Heating | Lower | 20°C DB            | -8.5°C DB, -9.5°C WB |
|         | Upper | 27°C DB            | 21°C DB, 15.5°C WB   |

Refrigerant Piping

| Models  | Between indoor & outdoor units |                       |                      | Pipe size O.D., mm |         |
|---|--------------------------------|-----------------------|----------------------|--------------------|---------|
|   | Max. height difference, m      | Max. piping length, m | Max. number of bends | Liquid             | Gas     |
| PLH-3AAK, PKH-3FAK,<br>PCH-3GAK, PEH-2.5EAK, PEH-3EAK | 50                             | 50                    | 15                   | Ø 9.52             | Ø 15.88 |
| PKH-4FAK PLH-4/5/6AAK,<br>PCH-4/5/6GAK, PEH-4/5/6EAK  | 50                             | 50                    | 15                   | Ø 9.52             | Ø 19.05 |

Optional Refrigerant Pipes

| Pipe length           | Part number  |  |
|-----------------------|--|--|
| 5m (16ft)             | PAC-05FFS-E  | PAC-SC51PI-E                                       |
| 7m (23ft)             | PAC-07FFS-E  | PAC-SC52PI-E                                       |
| 10m (33ft)            | PAC-10FFS-E  | PAC-SC53PI-E                                       |
| 15m (49ft)            | PAC-15FFS-E  | PAC-SC54PI-E                                       |
| Connection method     | Flared-flared                                      | Flared-flared                                      |
| Pipe size OD, mm (ft) | Liquid: Ø 9.52 (3/8) Gas: Ø 15.88 (5/8)            | Liquid: Ø 9.52 (3/8) Gas: Ø 19.05 (3/4)            |
| Applicable models     | PKH-3FAK, PLH-3AAK, PCH-3GAK, PEH-2.5EAK, PEH-3EAK | PKH-4FAK, PLH-4/5/6AAK, PCH-4/5/6GAK, PEH-4/5/6EAK |

Additional Refrigerant Charge [R-22: kg]

| Models            | Piping length (one-way) |     |     |     |     |     |     |     |     |     |
|-------------------|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 5m                      | 10m | 15m | 20m | 25m | 30m | 35m | 40m | 45m | 50m |
| PUH-2.5AKA        | 0                       | 0   | 0   | 0   | 0   | 0   | 0.2 | 0.2 | 0.5 | 0.5 |
| PUH-3VKA/PUH-3YKA | 0                       | 0   | 0   | 0   | 0   | 0   | 0.2 | 0.2 | 0.5 | 0.5 |
| PUH-4YKSA         | 0                       | 0   | 0   | 0   | 0   | 0   | 0.3 | 0.3 | 0.6 | 0.6 |
| PUH-5YKSA         | 0                       | 0   | 0   | 0   | 0   | 0   | 0.3 | 0.3 | 0.6 | 0.6 |
| PUH-6YKSA         | 0                       | 0   | 0   | 0   | 0   | 0   | 0.3 | 0.3 | 0.6 | 0.6 |

Cooling Capacity Correction Factors

| Models                                    | Correction factors (Cooling / Heating) |            |            |            |            |            |             |             |             |             |
|---|--|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| One-way piping length, m                  | 5                                      | 10         | 15         | 20         | 25         | 30         | 35          | 40          | 45          | 50          |
| PEH-2.5EAK                                | 1.00/1.00                              | 0.989/1.00 | 0.980/1.00 | 0.970/1.00 | 0.960/1.00 | 0.950/1.00 | 0.940/0.998 | 0.930/0.995 | 0.920/0.993 | 0.910/0.990 |
| PKH-3FAK, PCH-3GAK,<br>PLH-3AAK, PEH-3EAK | 1.00/1.00                              | 0.981/1.00 | 0.968/1.00 | 0.952/1.00 | 0.940/1.00 | 0.925/1.00 | 0.913/0.998 | 0.900/0.995 | 0.886/0.993 | 0.874/0.990 |
| PKH-4FAK PCH-4GAK,<br>PLH-4AAK, PEH-4EAK  | 1.00/1.00                              | 0.989/1.00 | 0.980/1.00 | 0.970/1.00 | 0.960/1.00 | 0.950/1.00 | 0.940/0.998 | 0.930/0.995 | 0.920/0.993 | 0.910/0.990 |
| PCH-5GAK PLH-5AAK,<br>PEH-5EAK            | 1.00/1.00                              | 0.981/1.00 | 0.968/1.00 | 0.952/1.00 | 0.940/1.00 | 0.925/1.00 | 0.913/0.998 | 0.900/0.995 | 0.886/0.993 | 0.874/0.990 |
| PCH-6GAK, PLH-6AAK<br>PEH-6EAK            | 1.00/1.00                              | 0.975/1.00 | 0.955/1.00 | 0.935/1.00 | 0.918/1.00 | 0.900/1.00 | 0.884/0.998 | 0.869/0.995 | 0.855/0.993 | 0.840/0.990 |

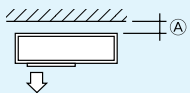
Main Optional Parts

| Model         | Description                                  | Applicable models |
|---------------|--|-------------------|
| MAC-397IF-E   | MA & Control Terminal Interface              | New A/K control   |
| PAC-SE55RA-E  | Timer Adapter                                | New A/K control   |
| PAC-725AD     | Multiple Remote Controller Adapter (10 sets) | New A/K control   |
| PAC-SE41TS-E  | Remote Sensor                                | New A/K control   |
| PAC-SA46DS-E  | Drain Socket                                 | PUH-2.5~4         |
| PAC-SA47DS-E  | Drain Socket                                 | PUH-5/6           |
| PAC-292SG-D   | Air Outlet Guide                             | PUH-2.5~6         |
| SDD-50S-E     | Distribution Pipe for Twin Use               | PUH-5/6           |
| PAC-SG03TM-E  | Multi-Function Casement                      | PLH series        |
| PAC-SG01KF    | High Efficiency Filter Element               | PLH series        |
| PAC-SG06SP-E  | Air Outlet Shutter Plate                     | PLH series        |
| PAC-SE85DMA-E | Drain Lift-Up Mechanism                      | PCH-3             |
| PAC-SE86DMA-E | Drain Lift-Up Mechanism                      | PCH-4~6           |
| PAC-SE81KF-E  | High Efficiency Filter                       | PCH-3/4           |
| PAC-SE82KF-E  | High Efficiency Filter                       | PCH-5/6           |
| PAR-SL99B-E   | Wireless Remote Controller                   | PCH series        |
| PAR-SL97A-E   | Wireless Remote Controller                   | PLH series        |

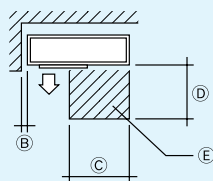
## ■ Outdoor Unit Installation Location

### • When installing a single outdoor unit:

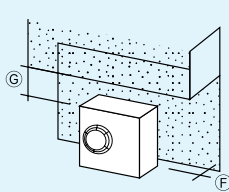
Obstacle at rear only



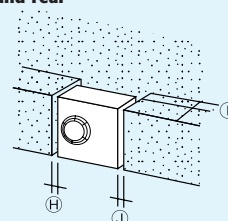
Service space



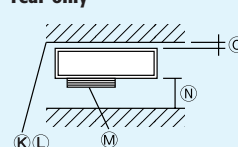
Top obstacles



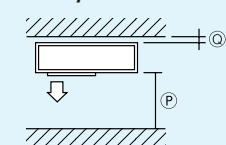
Obstacles at the right, left and rear



Obstacles at the front and rear only



Obstacle at the front and rear only

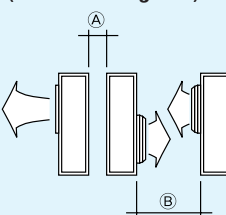


|     | PUH-2.5, 3    | PUH-4,5,6     |
|-----|---------------|---------------|
| (A) | 100mm or more | 150mm or more |
| (B) | 10mm or more  | 10mm or more  |
| (C) | 500mm or more | 500mm or more |
| (D) | 500mm or more | 500mm or more |
| (E) | Service space |               |
| (F) | 100mm or more | 150mm or more |
| (G) | 500mm or more | 500mm or more |
| (H) | 10mm or more  | 10mm or more  |
| (I) | 200mm or more | 300mm or more |

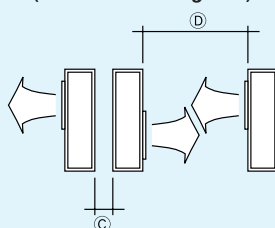
|     | PUH-2.5, 3  | PUH-4,5,6      |
|-----|---|----------------|
| (J) | 10mm or more  | 10mm or more   |
| (K) | Obstruction width: 1.5 times the width of outdoor unit or smaller |                |
| (L) | Obstruction height: Unit height or lower                          |                |
| (M) | Air outlet guide  |                |
| (N) | 500mm or more   | 500mm or more  |
| (O) | 100mm or more   | 150mm or more  |
| (P) | 3000mm or more  | 3800mm or more |
| (Q) | 100mm or more   | 150mm or more  |

### • When installing many outdoor units:

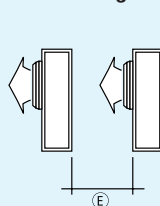
Face-to-face arrangement (with air outlet guides)



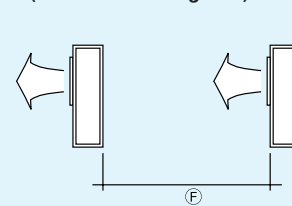
Face-to-face arrangement (without air outlet guides)



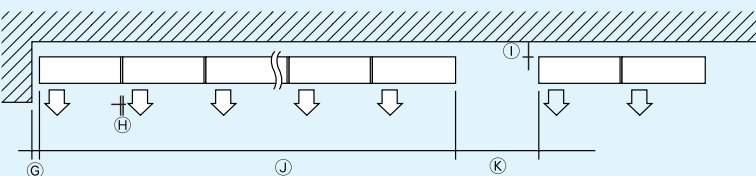
Parallel arrangement (with air outlet guides)



Parallel arrangement (without air outlet guides)



Side-by-side arrangement



|     | PUH-2.5, 3  | PUH-4,5,6      |
|-----|---|----------------|
| (A) | 200mm or more   | 300mm or more  |
| (B) | 500mm or more   | 500mm or more  |
| (C) | 200mm or more   | 300mm or more  |
| (D) | 1200mm or more  | 1500mm or more |
| (E) | 1000mm or more  | 1500mm or more |
| (F) | 2000mm or more  | 2500mm or more |
| (G) | 100mm or more   | 150mm or more  |
| (H) | 10mm or more  | 10mm or more   |
| (I) | 200mm or more   | 300mm or more  |
| (J) | Up to 10 units (When the optional air outlet guides are used, no more than five units should be arranged side by side.) |                |
| (K) | 1000mm or more  | 1000mm or more |

## Precautions/recommendations concerning the installation and operation of Mitsubishi Electric Mr. Slim air conditioners.

■ When used in rooms with high ceilings, it is recommended that a ceiling fan or circulator be installed to improve air circulation and temperature variations within the room.

■ The remote-control circuits under microprocessor control remain on at all times whether the air conditioner is or is not in operation. For more economical operation, it is recommended that the main power switch be turned off when the air conditioner(s) is not used for long periods.

■ Avoid using air conditioning units in areas where they are exposed to oil or oily smoke (cooking areas or machine shops). Oil which adheres to the heat exchangers will cause reduced efficiency, generate mist and may damage plastic components.

■ Avoid exposure to high-frequency waves as this may cause the microprocessor to malfunction.

■ Rated noise levels were derived from tests in an anechoic test room. Noise levels may therefore be greater depending on the surroundings, application, and/or manner of installation.

■ Avoid using air conditioners in rooms with high humidity because excessive condensation will occur as the air cools.

■ To avoid fire hazards, do not use air conditioners in areas where inflammable gases are present.

■ Odours for buildings, cosmetics, perspiration, cigarette smoke, etc., may accumulate in the heat exchanger and emanate from the air conditioner. This is not indicative of mechanical trouble.



**Certificate Number 49385**

Mitsubishi Electric Shizuoka Works acquired ISO 9001 certification under Series 9000 of the International Standard Organization (ISO) based on a review of Quality warranties for the production of refrigeration and air conditioning equipment.



**Certificate Number EC97J1132**

Mitsubishi Electric Shizuoka Works acquired environmental management system standard ISO 14001 certification.



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