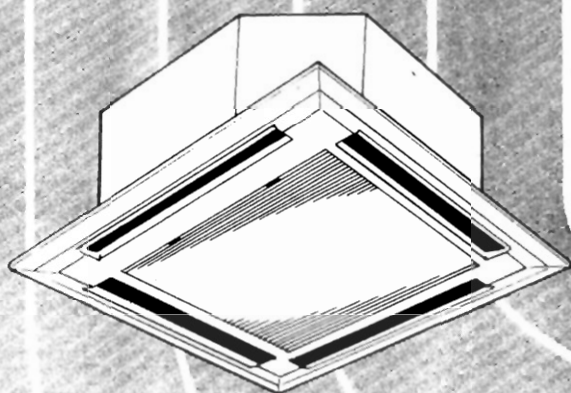


# MITSUBISHI ELECTRIC Air-Conditioners

Mr. SLIM

Models: PLH-2,2.5,3GK(H)A,4,5,6GK(H)SA

## Instructions for use



Ceiling suspension  
(semi-concealed)



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**Attention :** The installation manual details the suggested installation method. Any structural alterations necessary for installation must comply with local building code requirements.

These air conditioners incorporate the latest technological advances of Mitsubishi Electric and are produced under strict quality control.

# 1. Names and Functions of Parts

## ●Indoor (Main) Unit

### Horizontal Air Outlet

Sets airflow horizontal automatically when cooling or dry (dehumidify).

### Downward Air Outlet

Sets airflow downward automatically during heating

### Sliding Shutter

Enables to adjust air capacity and wind speed by shifting air outlet space. (See page 8 for details.)

### Filters

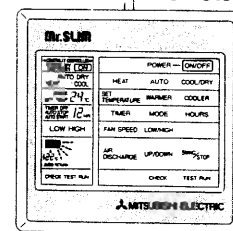
Remove dust and refuse from inhaled air.

### Grille

### Auto Air Swing Vane

Disperses airflow up and down as well as adjusts the angle of airflow direction. (See page 8 for details.)

### Remote Controller



### Air Intake

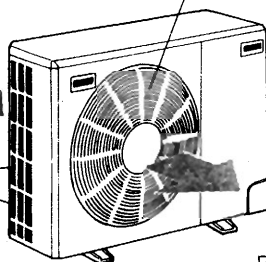
Inhales air from room.

## ●Outdoor Unit

### Air outlet

(Expels warm air during cooling).

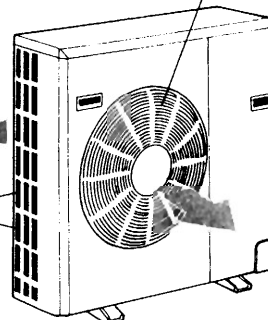
### Air intake



PUH-2

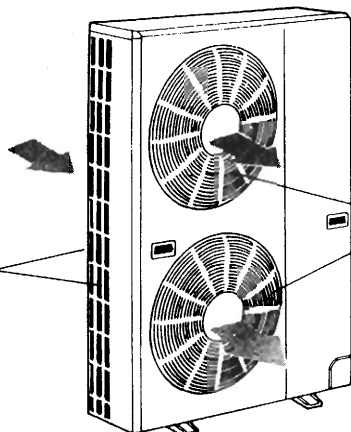
### Air outlet

### Air intake



PUH-2.5, 3

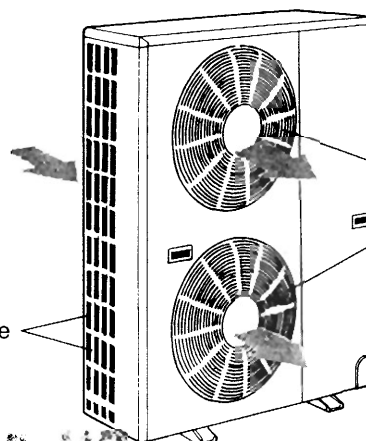
### Air intake



PUH-4

### Air outlet

### Air intake



PUH-5, 6

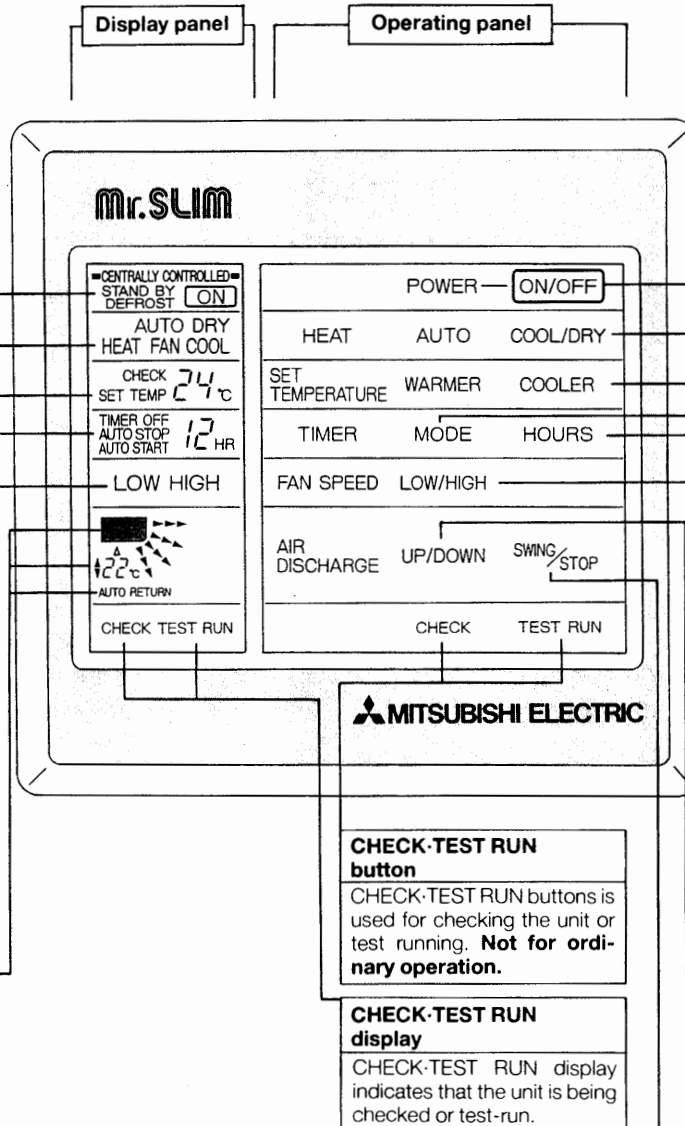
## Liquid-crystal display

## ● Remote controller

Settings remain in effect until changed. Air conditioner can be operated by simply pushing POWER ON/OFF button once settings have been made.

## Remote control operation

<b>ON display</b>
"ON" is displayed during operation.
<b>STAND BY display</b>
"STAND BY" is displayed from the time heating mode is started until the warm air begins blowing out.
<b>DEFROST display</b>
"DEFROST" is displayed during defrosting.
<b>CENTRALLY CONTROLLED display</b>
"-CENTRALLY CONTROLLED-" is displayed when the unit is controlled by optional features such as central control type remote controller and etc.
<b>OPERATION MODE display</b>
Operation mode display indicates which operation mode is in effect.
<b>SET TEMP display</b>
SET TEMP display indicates desired temperature set.
<b>CHECK display</b>
CHECK is displayed when some trouble arises in unit.
<b>TIMER MODE display</b>
TIMER MODE display indicates which of the modes TIMER OFF, AUTO STOP, or AUTO START is in effect and indicates the length of time set on timer.
<b>FAN SPEED display</b>
FAN SPEED display indicates which fan speed has been selected.
<b>VERTICAL AIRFLOW DISTRIBUTION display</b>
The vertical direction of airflow is indicated in ► marks.
<b>ROOM TEMPERATURE display</b>
ROOM TEMPERATURE display indicates intake air temperature during operation. The range of temperatures displayed is 10 ~ 35 °C. Any temperature out of that range reads "▼ 10 °C" or "▲ 35 °C" display.
<b>AUTO RETURN display</b>
AUTO RETURN display comes on when downward airflow is set during cooling or dry (dehumidify) with low fan speed, and goes off after one hour elapses (See page 8.)



<b>POWER ON/OFF button</b>
Push to start operation. Push again to stop operation.
<b>OPERATION MODE SELECT button</b>
Operation mode select button selects the desired mode: HEATING, AUTOMATIC COOLING-HEATING CHANGE OVER, COOLING, or DRY (dehumidify).
<b>SET TEMPERATURE button</b>
SET TEMPERATURE button sets any desired room temperature..
<b>TIMER MODE SELECT button</b>
Selects the desired mode: TIMER OFF, AUTO STOP, or AUTO START.
<b>TIME SELECT button</b>
Any length of operation from one to twenty-four hours can be set.
<b>FAN SPEED SELECT button</b>
FAN SPEED SELECT button selects low or high fan speed.
<b>AIR DISCHARGE CONTROL button</b>
AIR DISCHARGE CONTROL button regulates the vertical distribution of airflow.
<b>SWING/STOP button</b>
use when airflow is preferably desired to swing vertically.

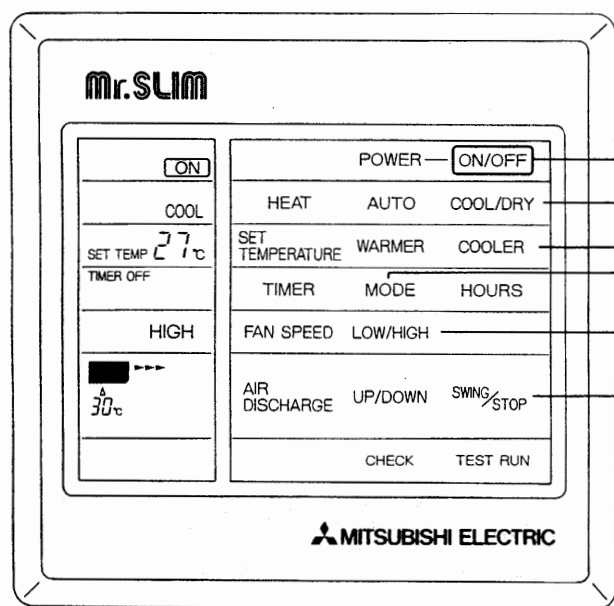
### Attention :

- All liquid-crystal panel readings disappear when air conditioner is not in operation.
- When any button on control panel is pushed, it beeps to indicate that it has functioned.
- Avoid button operation with fingernails or other sharp objects. They may damage the control panel.
- They may be the case that "-CENTRALLY CONTROLLED-" is displayed a moment and goes off. This is not malfunction.
- Fan Speed or Vertical Airflow Direction can be adjusted even in case of use with centrally controlled type remote controller (optional).

## 2. Method of Use and Description of Operation

### Cooling

- Cooling can be controlled by simply pushing POWER ON/OFF button once settings have been made. Check that power is on before starting. Avoid turning off main power while cooling is operating. As it will turn off crankcase heater.
- Mode of COOL or DRY is transferred alternately at every pushing COOL/DRY button. The current operation shall be confirmed on the display.



Values and figures on the above control panel are an example of operation during cooling.

**1** Push POWER ON/OFF button.

**2** Push COOL/DRY button to select COOL mode.

**3** Set desired temperature  
(See page 7 for temperature setting method.)

**4** Push MODE (TIMER) button to select "TIMER OFF" mode.  
(See page 7 for timer operation method.)

**5** Set desired fan speed.

**6** Adjust vertical direction of airflow as desired.

- See page 8 for the procedure of adjusting the direction of airflow.
- The vertical distribution of airflow is set automatically :  
Straight out horizontally under normal conditions.

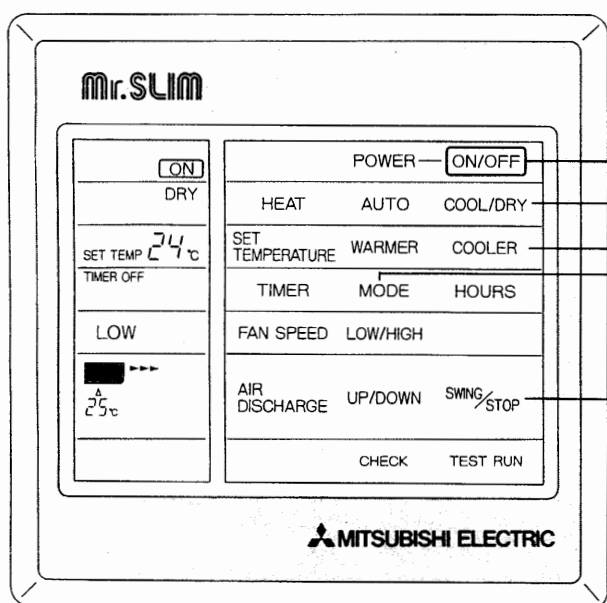
**Stopping** Push POWER ON/OFF button.

To protect unit, air conditioner will not restart for about three minutes after stopping. Air conditioner will restart automatically after three minutes have elapsed if POWER ON/OFF button is pushed during this time.

# Dry (Dehumidify)

- Dry (dehumidify) can be controlled by simply pushing POWER ON/OFF button once settings have been made. Check that power is on before starting. Avoid turning off main power while dry (dehumidify) is operating. As it will turn off crankcase heater.

- When the room temperature is lower than 18 deg. C, do not become to dry (dehumidify) mode operation.
- Indoor fan operation will be kept at low speed which cannot be changed.  
(It is changed only on the display of remote controller.)
- Mode of COOL or DRY is transferred alternately at every pushing COOL/DRY button. The current operation shall be confirmed on the display.



Values and figures on the above control panel are an example of operation during dry (dehumidify).

## ■ Dry (Dehumidify) Mode Operation

This mode is the dehumidifying operation under the control of microcomputer system, with holding overcooling in compliance with desired temperature.

(It doesn't function during heating mode operation.)

### ● Mechanism of Dry (Dehumidify) Mode

1. Until getting to the desired temperature.  
According to the change of room temperature, compressor and indoor fan repeat ON/OFF in a linkage automatically.
2. After getting to desired temperature.
  - Both of compressor and indoor fan stop their operations.
  - After ten minutes stop, they operate for 3 minutes to keep the existing low humidity.

**1** Push POWER ON/OFF button.

**2** Push COOL/DRY button to select DRY mode.

**3** Set desired temperature.  
(See page 7 for temperature setting method.)

**4** Push MODE (TIMER) button to select "TIMER OFF" mode.  
(See page 7 for timer operation method.)

**5** Adjust vertical direction of airflow as desired.

- See page 8 for the procedure of adjusting the direction of airflow.
- The vertical distribution of airflow is set automatically :  
Straight out horizontally under normal conditions.

**Stopping** Push POWER ON/OFF button.

To protect unit, air conditioner will not restart for about three minutes after stopping. Air conditioner will restart automatically after three minutes have elapsed if POWER ON/OFF button is pushed during this time.

# Automatic

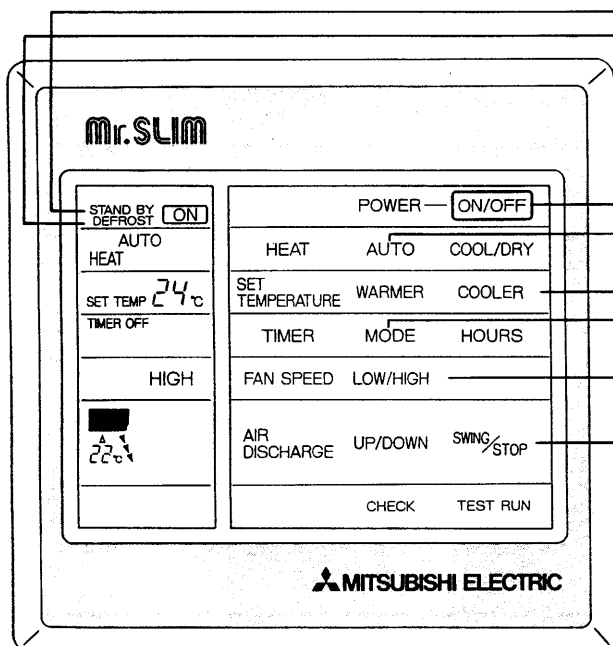
- An automatic cooling and heating changeover operation system is equipped to ensure easy control and year-round air conditioning. Once the desired temperature is set, unit operation is switched automatically between cooling and heating, in accordance with the room temperature. In addition, the use of outdoor unit fan speed controller enables cooling operation at outdoor temperatures as low as  $-5^{\circ}\text{C}$ .

Automatic can be controlled by simply pushing POWER ON/OFF button once settings have been made. Check that power is on before starting. **Avoid turning off main power while automatic is operating. As it will turn off crankcase heater.**

In order not to blow cold air, the fan gradually increases its speed from very low to the speed that you set when heating is first switched on.

Display comes on when the heating mode is selected and goes off when warm air begins blowing out.

Displayed only during defrosting in the heating mode.



Values and figures on the above control panel are an example of the heating mode during automatic operation.

Examples of Microprocessor Operation during Heating.

## When fan does not operate at set speed.

When the compressor is not in operation and the room temperature has reached the set temperature, the fan speed decreases and airflow dwindles to a minimum. The fan stops during defrosting to prevent cold air from being blown out.

## Air is blown even after operation has stopped.

The fan may continue blowing air at low speed about one minute after operation has stopped. That is to discharge residual heat.

**1** Push POWER ON/OFF button.

**2** Push AUTO button

**3** Set desired temperature

(See page 7 for temperature setting method.)

**4** Push MODE (TIMER) button to select "TIMER OFF" mode.

(See page 7 for timer operation method.)

**5** Set desired fan speed.

**6** Adjust vertical direction of airflow as desired.

- See page 8 for the procedure of adjusting the direction of airflow.
- The vertical distribution of airflow is set automatically :  
Straight out horizontally during cooling and downward during heating.

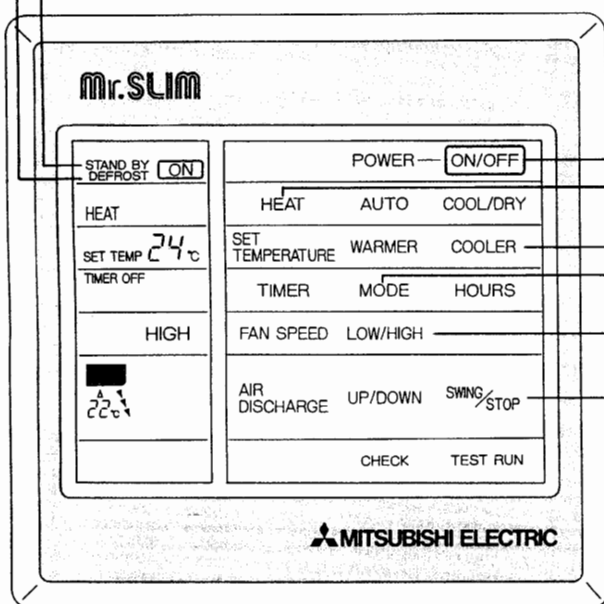
**Stopping** Push POWER ON/OFF button.

To protect unit, air conditioner will not restart for about three minutes after stopping. Air conditioner will restart automatically after three minutes have elapsed if POWER ON/OFF button is pushed during this time.

# Heating

Display comes on when the heating mode is selected and goes off when warm air begins blowing out.

Displayed only during defrosting in the heating mode.



Values and figures on the above control panel are an example of operation during heating.

Examples of Microprocessor Operation.

## When fan does not operate at set speed.

When the compressor is not in operation and the room temperature has reached the set temperature, the fan speed decreases and airflow dwindles to a minimum. The fan stops during defrosting to prevent cold air from being blown out.

## Air is blown even after operation has stopped.

The fan may continue blowing air at low speed about one minute after operation has stopped. That is to discharge residual heat.

Heating can be controlled by simply pushing POWER ON/OFF button once settings have been made. Check that power is on before starting. **Avoid turning off main power while heating is operating. As it will turn off crankcase heater.**

In order not to blow cold air, the fan gradually increases its speed from very low to the speed that you set when heating is first switched on.

**1**

Push POWER ON/OFF button.

**2**

Push HEAT button

**3**

Set desired temperature

(See page 7 for temperature setting method.)

**4**

Push MODE (TIMER) button to select "TIMER OFF" mode.

(See page 7 for timer operation method.)

**5**

Set desired fan speed.

**6**

Adjust vertical direction of airflow as desired.

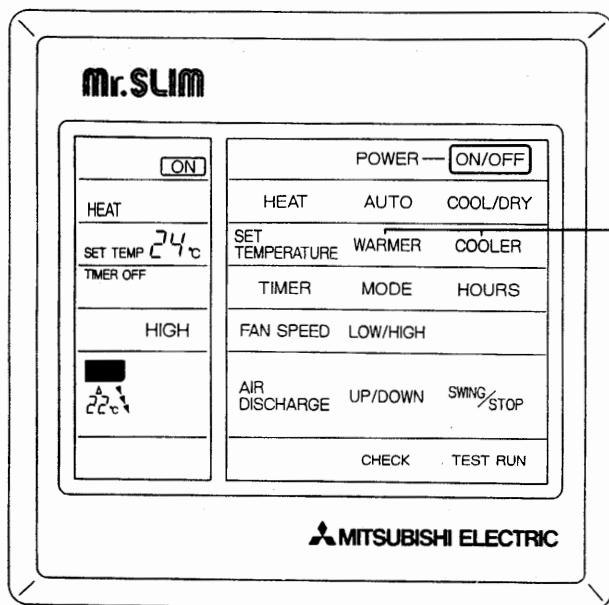
- See page 8 for the procedure of adjusting the direction of airflow.
- The vertical distribution of airflow is set automatically :  
Downward under normal conditions.

Stopping

Push POWER ON/OFF button.

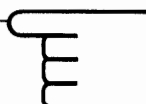
To protect unit, air conditioner will not restart for about three minutes after stopping. Air conditioner will restart automatically after three minutes have elapsed if POWER ON/OFF button is pushed during this time.

# Regulating Room Temperature



## Changing Room Temperature

To change room temperature, push WARMER or COOLER button while referring to display panel.



Push WARMER or COOLER button to set desired temperature.

Each time the WARMER button is pushed, the temperature setting is increased by 1 °C.

Holding down the button increases the temperature setting 1 °C every 0.5 seconds.

Each time the COOLER button is pushed, the temperature setting is decreased by 1 °C.

Holding down the button decreases the temperature setting 1 °C every 0.5 seconds.

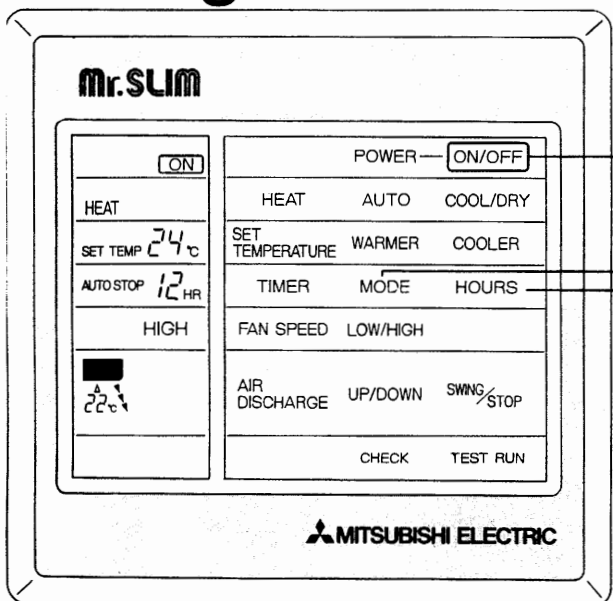
### Temperature Setting Range

Cooling : 19 ~ 30 °C  
Heating : 17 ~ 28 °C  
Automatic : 19 ~ 28 °C  
Dry : 19 ~ 30 °C

### Example of Temperature Setting Display

SET TEMP **24** °C

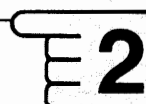
## Using Timer



## Setting Timer



1 Push POWER ON/OFF button



2 Push MODE (TIMER) button to select "AUTO STOP" or "AUTO START" mode.



3 Push HOURS (TIMER) button to set desired length of time set on timer.

- Each time the button is pushed, the time setting is increased by one hour. Holding down the button increases the time setting one hour every 0.5 seconds to a maximum of 24 hours.
- The unit can be either started or stopped while in AUTO STOP or AUTO START mode by pushing the POWER ON/OFF button regardless of any remaining time set on the timer.
- The last settings of AUTO START and AUTO STOP are each stored in memory whenever the timer mode is entered, the previous settings are restored.

### Example Timer Setting

AUTOSTOP **12** HR

The example shows the AUTO STOP mode by which the unit stops after 12 hours of operation. The time reading decreases by one hour after each hour elapses, indicating the remaining time.

### Cancellation

Push POWER ON/OFF button

If timer mode has been set "AUTO START", Air conditioner will begin to operate.

If timer mode has been set "AUTO STOP", unit will stop its operation.

## Function of Timer

### AUTO STOP Mode:

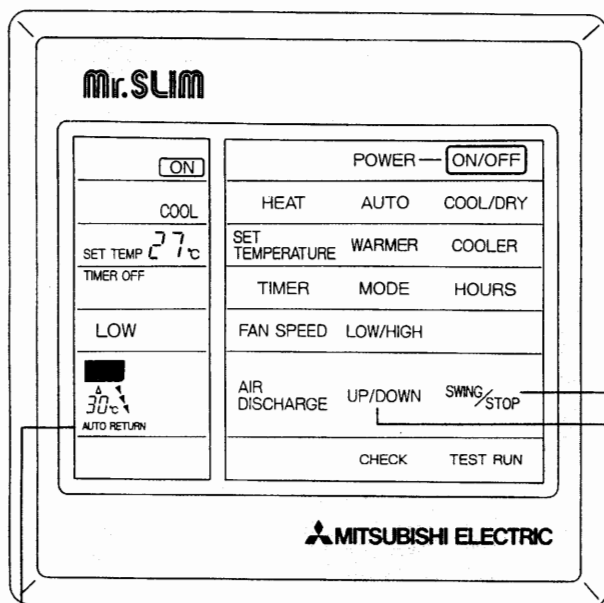
- Air conditioner stops after operating for length of time set on timer.

### AUTO START Mode:

- Air conditioner starts after length of time set on timer elapses.



# Adjusting Airflow Direction



The display comes on when the unit is set for cooling or dry (dehumidify) with low fan speed and downward airflow. It goes off one hour later with airflow direction automatically returning to horizontal.

In case that remote controller does not control the vertical direction adjustment of airflow, it will set as below :

During Cool or Dry (Dehumidify) mode  
Horizontal Approx. 20 deg.

During Heat mode  
Downward, Approx. 70 deg.

## Procedure of adjusting vertical direction of airflow.

You can get your desired airflow direction by auto air swing vane controlled by remote controller.

**1** Auto Air Swing Vane is ready to Swing or Stop by pushing SWING/STOP button.

- If "Swing" is set, auto air swing vane will ply within a swing range to diffuse the airflow vertically.
- Transferring the selection from swing to stop, the auto air swing vane returns to the position where it was before swing was selected. However, in case that the modes of Cool, Dry or Heat are changed during "Stop" setting, the direction of airflow is automatically set "Horizontal, 20 deg." under the operation of Cooling or Dry (Dehumidify) and "Downward, 70 deg." at Heating operation.

Indication on remote controller display at swing mode.

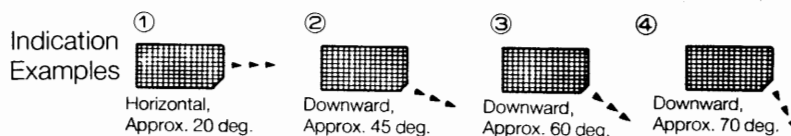
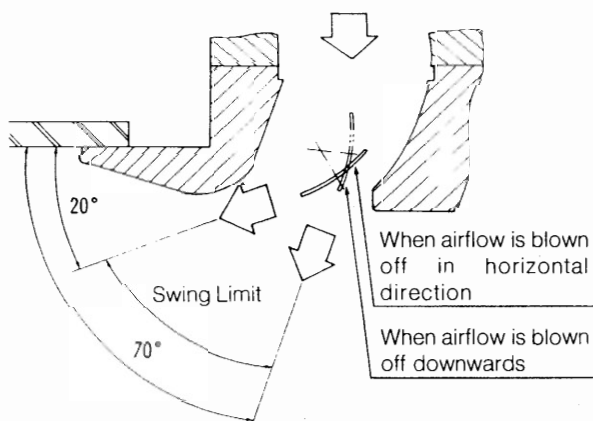


Moving arrow indicates that the auto air swing vane is in operation.

☆ Arrow indication on remote controller display does not always coincide with the actual position of auto air swing vane.

**2** Direction of air discharge will be changed at every pushing UP/DOWN button of Air Discharge Direction.

☆ During "Swing" being set, the UP/DOWN button of Air Discharge Direction will not function.



- In the case of high fan speed during cooling, or of heating, the distribution changes in the sequence ① → ② → ③ → ④.
- In the case of high fan speed and downward airflow ②, during cooling, switching to low fan speed causes airflow distribution to change automatically to horizontal ①.
- In the case of low fan speed during cooling, or of dry (dehumidify)

the distribution changes in the order ① → ③ → ④ and is shown on the liquid-crystal display panel. One hour after downward airflow ③ or ④ is set with low fan speed during cooling or dry (dehumidify), the airflow distribution returns automatically to horizontal ①.

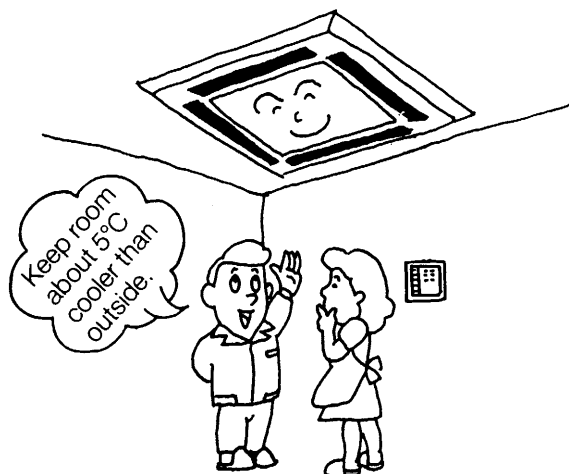
(Avoid overly frequent use since that may cause the condensation of moisture and dripping.)

# 3. For Best Results ...

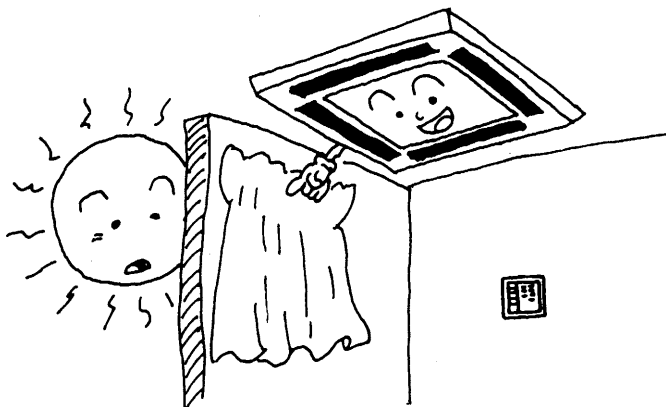
A few simple steps will permit the most effective and economical air conditioner operation.

## Cool to Reasonable Temperatures

- Cooling is most efficient when the difference between room and outside temperatures is less than 5°C.
- Raising room temperature 1°C during cooling will result in electricity savings of about 10%.
- Overcooling is not good for health and wastes electricity.

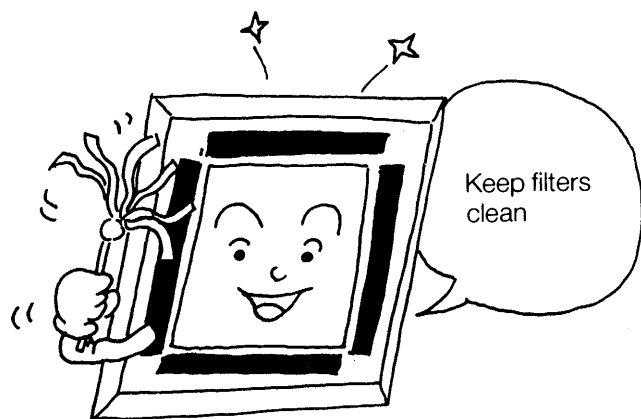


## Block Sources of Outside Heat



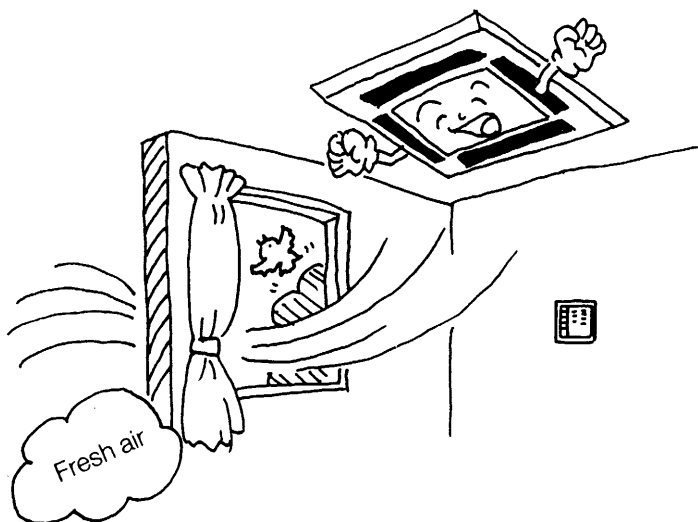
- Use curtains to cover windows subject to direct sunlight during cooling. Avoid opening doors more often than necessary.

## Clean Filters Conscientiously



- Dirty or clogged filters block airflow and reduce cooling and heating efficiency. Especially dirty filters can damage the air conditioner itself. Clean filters once every two weeks, or more often in particularly dusty locations.

## Allow Fresh Air into Room Occasionally



- Air in closed off rooms will grow musty over time as changing air.

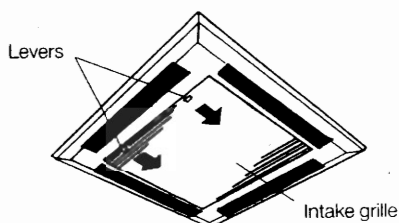
# 4. Care and Cleaning

Always turn power off before cleaning or servicing air conditioner.

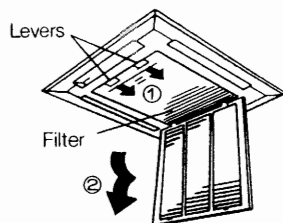
## Filters

### Removing Filters

- Intake grille will open by pulling levers on grille in direction of arrow.



- For removing filter, pull levers on filter in direction of arrow ① to unfasten filter, then draw it out in direction of arrow ②.



### Cleaning Filters

- Tap lightly or clean with vacuum cleaner. Rinse in water or neutral detergent dissolved in lukewarm water if filters are especially dirty. Be sure to thoroughly rinse off any detergent used. Dry before reinstalling into air conditioner.



### Attention

- Do not dry filters in direct sunlight or by other heat sources. Heat may disfigure filters.
- Washing in hot water (over 50°C) may disfigure filters.

## Main Unit

### Cleaning

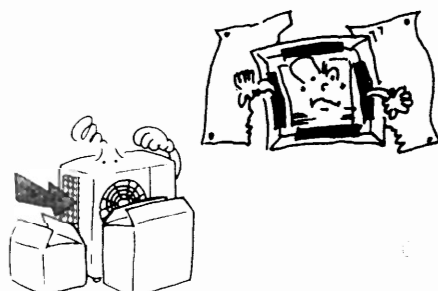
- Wipe with clean, dry, soft cloth.



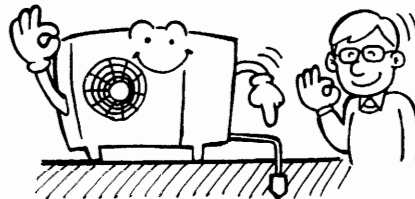
- Use neutral household detergent (for dishes or laundry) to clean oil or hand-prints.

### Before Season Starts

- Check that intakes and outlets on both indoor and outdoor units are free of obstruction.
- Be sure to remove protective cover from outdoor unit.



- Check that ground wire is properly in place.

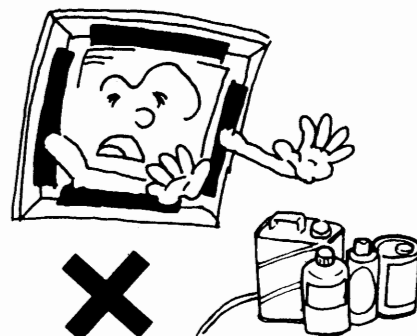


- Check drain hose for bends, kinks, clogging and improper positioning.

- Always replace filters before starting air conditioner. Running air conditioner without filters can damage unit.

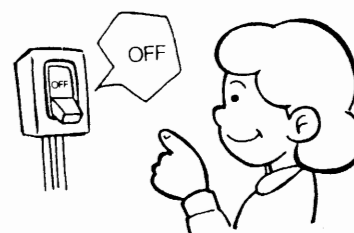
- Turn main power on at least 12 hours before starting actual operation. This will ensure smooth trouble-free starting.

- Never use gasoline, benzene, thinner, scouring powder or non-neutral detergents. These materials may damage air conditioner.

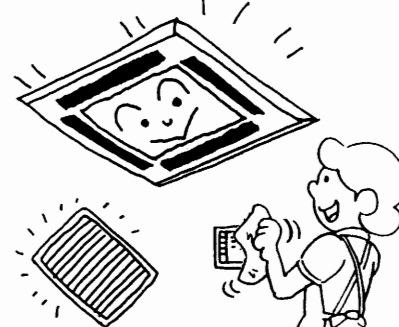


### After Season is Over

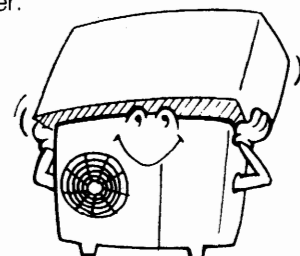
- Turn main power off.



- Clean filters and other parts.



- Cover outdoor unit with plastic or other cover to protect from dirt and foreign matter.



# 5. Troubleshooting

Check the following points before calling for service.

Problem	Display	Cause	Remedy
Unit does not operate at all.	When POWER ON/OFF button is pushed, there is no beep and nothing is displayed.	Power outage.	Push POWER ON/OFF button after power restored.
		Main power not on.	Turn main power on.
		Main power fuse blown.	Replace fuse.
		Ground fault breaker open.	Reset ground fault breaker.
Air is blown but is not cooled or heated.	Liquid-crystal display indicates that the unit is on.	Improper temperature setting.	After checking the temperature setting and the intake air temperature reading on the liquid-crystal display and after referring to "Regulating Room Temperature" on page 7, make the necessary adjustment with the WARMER or COOLER button.
		Clogged filters.	Clean filters. See page 10 "Cleaning Filters".
		Intake or outlet of indoor or outdoor unit obstructed.	Remove obstruction.
		Open window or door.	Shut window or door.
Neither cool nor warm air is blown out	Liquid-crystal display indicates that the unit operates.	3-Minute Restart Preventive Circuit is functioning.	As 3-Minute Restart Preventive Circuit is built in outdoor unit to protect compressor, compressor will not sometimes restart at once. In such case, please wait for a little while until the compressor restarts. It takes three minutes at longest.
Operation stops soon after starting.	Liquid-crystal display reads CHECK and "P8" or "P8".	Intake or outlet of indoor or outdoor unit obstructed.	Restart after removing obstruction.
		Clogged filters.	Restart after cleaning filters. See page 10 "Cleaning Filters".

If the above measures fail to solve the problems, turn off main switch and inform the dealer from which the air conditioner was purchased of the model name and the nature of the problem. If remote control liquid-crystal display panel displays "CHECK" and "P 1-P8, EC" also inform the dealer of that. Never attempt to repair the air conditioner yourself. ("UB" is not malfunction.)

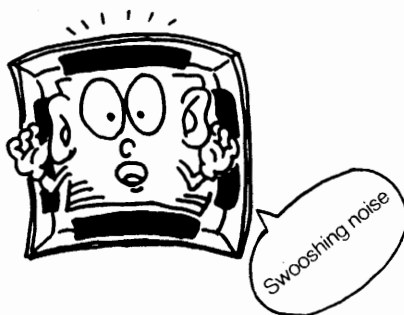
## The following are not malfunctions

### Odor



Air from air conditioner may sometimes carry odors. These odors are from tobacco smoke, cosmetics, furniture finish or other odors taken in during air conditioning and adhering to filters and other parts of air conditioner.

### Noise



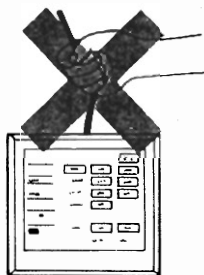
A swooshing noise may be heard during and upon stopping operation. This is merely refrigerant circulating inside air conditioner and does not represent a problem.



A ticking sound may occur just after stopping or starting cooling or heating. This is caused by slight shrinking or expansion of grille with temperature changes and does not represent a problem.

# 6. Special Precautions

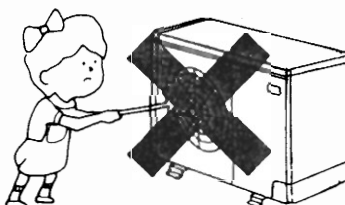
Avoid pulling remote controller cord strongly.



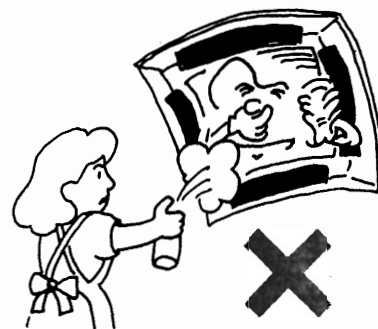
Yanking or tugging cord can damage unit or controller.

Never insert stick or foreign object in intakes or outlets.

Touching rotating or electrical parts can be hazardous.  
Exercise special care around children.

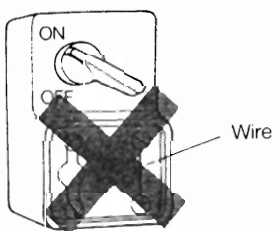


Do not spray with insecticide or other combustible gas.



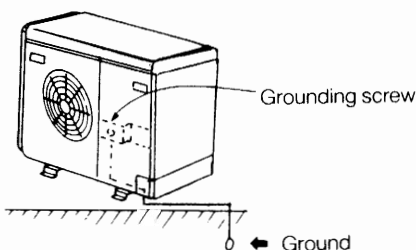
Always observe voltage rating and fuse and breaker capacities.

Never substitute piece of wire or higher capacity fuse for fuse of rated capacity. This can cause breakdowns or fires.



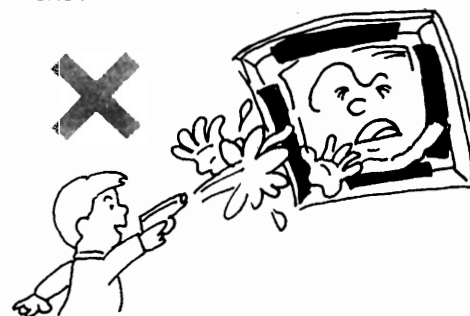
Always ground air conditioner.

Check that wire is properly connected between unit ground wire terminal and ground.



Do not apply water directly to air conditioner unit.

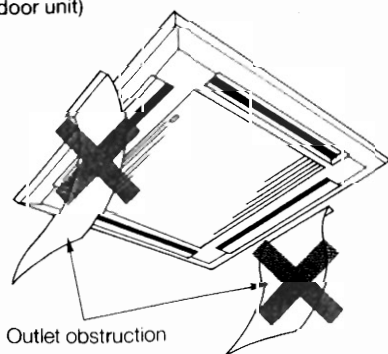
This can cause breakdowns or electrical shocks.



Do not obstruct indoor or outdoor unit intake or outlet

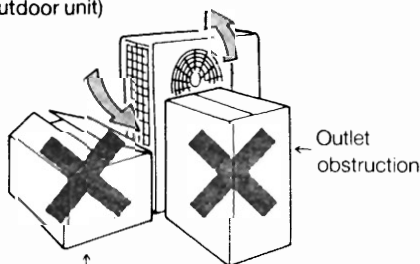
Obstruction will impeded performance and can cause breakdowns.

(Indoor unit)



Outlet obstruction

(Outdoor unit)



Intake obstruction

Restarting after power outage

When operation has been stopped by power outage the "power outage restarting prevention circuit" keeps unit from restarting itself after power is restored. Push POWER ON/OFF button to restart.

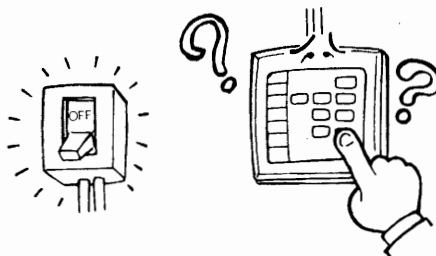
When stopping operation for long periods of time.

Turn main air conditioner power off before stopping air conditioner for extended periods of time or between operating seasons. Transformer and compressor-protection crankcase heater will consume electricity of approximately 40 W unless main power is turned off.

Stop operation and contact dealer in the following cases.

Breaker is tripped frequently.

Remote controller functions erratically.



- Remote controller inspection display runs continuously.
- Any other operation or display differing from normal.

When restarting after long periods of no operation.

Turn main power on at least 12 hours before starting actual operation. This will ensure smooth trouble-free starting.



# 7. Specifications

Item		Model	PLH-2GK(H)A	PLH-2.5GK(H)A		PLH-3GK(H)A	PLH-4GK(H)SA	PLH-5GK(H)SA	PLH-6GK(H)SA
Performance *5	Cooling *2 capacity	W	5200	6000	6200	7700	9700	12100	13300
		BTU/h	17700	20500	21200	26300	33100	41300	45400
		Total input kW	2.65	2.93	3.09	3.57	3.97	5.18	5.21
	Heating *3 capacity	W	5800(7400)	6500 (8600)	6700 (8800)	8400(10500)	10400(13000)	13400(16400)	15700(18700)
		BTU/h	19800(25200)	22200 (29300)	22900 (30000)	28700(35800)	35500(44400)	45700(56000)	53600(63800)
		Total input kW	2.61(4.21)	2.68 (4.78)	2.72 (4.82)	3.59(5.69)	3.93(6.53)	4.88(7.88)	5.09(8.09)
Indoor unit	Model name		PLH-2GK(H)A	PLH-2.5GK(H)A		PLH-3GK(H)A	PLH-4GK(H)SA	PLH-5GK(H)SA	PLH-6GK(H)SA
	Power supply *1		~(1ph),220-240V,50Hz	~(1ph),220-240V,50Hz		~(1ph),220-240V,50Hz	~(1ph),220-240V,50Hz	~(1ph),220-240V,50Hz	~(1ph),220-240V,50Hz
	Fan	Air flow (Lo-Hi) CMM	12—16	14—18		14—18	23—32	24—33	25—35
		Ex. static pressure Pa(mmAq)	0	0		0	0	0	0
		Motor output kW	0.030	0.050		0.050	2×0.050	2×0.050	2×0.050
	Booster heater *4		kW	(1.6)		(2.1)	(2.6)	(3.0)	(3.0)
	Dimensions (H×W×D) mm		258×820×820	258×820×820		258×820×820	258×1340×820	258×1340×820	258×1340×820
Grille	Weight kg		26(27)	28(29)		28(29)	44(45)	44(45)	44(45)
	Dimensions (H×W×D) mm		65×950×950	65×950×950		65×950×950	65×1470×950	65×1470×950	65×1470×950
Outdoor unit	Weight kg		7	7		7	10	10	10
	Model name		PUH-2AKA	PUH-2VKA	PUH-2.5AKA	PUH-2.5VKA	PUH-3VKA	PUH-3YKA	PUH-4YKSA
	Power supply *1		~(1ph) 240V 50Hz	~(1ph) 220- 240V 50Hz	~(1ph) 240V 50Hz	~(1ph) 220- 240V 50Hz	3N~(3ph,4wires) 380/220- 415/240V 50Hz	3N~(3ph,4wires) 380/220- 415/240V 50Hz	3N~(3ph,4wires) 380/220- 415/240V 50Hz
	Fan	Air flow CMM	45	50		50	95	95	100
		Motor output kW	0.065	0.085		0.085	0.065+0.065	0.085+0.085	0.10+0.10
	Compressor motor output kW		1.7	2.0		2.2	2.4	2.7	3.5
	Crankcase heater W		38	38		38	38	38	38
	Dimensions (H×W×D) mm		650×870×295	850×870×295		850×870×295	1258×870×295	1258×970×345	1258×970×345
	Weight kg		64	68		75	94	114	117

Notes: \*1 Refer to the product nameplate attached to the unit for the electrical specifications.  
 \*2 Rating conditions (cooling) ... Indoor : 27°C DB, 19°C WB Outdoor : 35°C DB  
 \*3 Rating conditions (heating) ... Indoor : 20°C DB Outdoor : 7°C DB, 6°C WB  
 \*4 Only models PLH-2,2.5,3GKHA,4,5,6GKHSA are equipped with booster heater.  
 \*5 These data based on indicated voltage. ~ (1ph), 240V/3~ (3ph), 415V  
 \*6 Specifications subject to change without notice.

## Operating range

		Indoor air intake temperature	Outdoor air intake temperature
Cooling	Maximum	35°C DB, 22.5°C WB	46°C DB
	Maximum	21°C DB, 15.5°C WB	−5°C DB
Heating	Maximum	27°C DB	21°C DB, 15.5°C WB
	Maximum	20°C DB	−8.5°C DB, −9.5°C WB

Units should be installed by licensed electric contractor accordingly to local code requirement.

PLH-2GKA 3.1/3

Item	Model	PLH-2GKA	PLH-2.5GKA	PLH-3GKA	PLH-4GKSA
Performance	Cooling *2 capacity	W	5400	6700	8000
		BTU/h	18400	22900	27300
	Total input	kW	2.78	3.23	3.88
					5.02
	Cooling *3 capacity	W	4500	5800	6700
		BTU/h	15500	19800	23000
	Total input	kW	3.18	3.74	4.42
					5.56
	Heating *4 capacity	W	6200	7500	8800
		kW	21000	25800	30100
Indoor unit	Total input	kW	2.61	3.05	3.54
					4.22
	Model name	PLH-2GKA	PLH-2.5GKA	PLH-3GKA	PLH-4GKSA
	Power supply *1	~(1ph),220V.60Hz	~(1ph),220V.60Hz	~(1ph),220V.60Hz	~(1ph),220V.60Hz
	Air flow (Lo-Hi)	CMM	12-16	14-18	14-18
	Ex. static pressure	Pa(mmHg)	0	0	0
	Motor output	kW	0.030	0.050	0.050
					0,050 + 0.050
	Dimensions (H×W×D)	mm	258×820×820	258×820×820	258×820×820
	Weight	kg	26	28	28
Grille	Dimensions (H×W×D)	mm	65×950×950	65×950×950	65×950×950
	Weight	kg	7	7	7
Outdoor unit	Model name	PUH-2NKA	PUH-2.5NKA	PUH-3NKA	PUH-4TKSA
	Power supply *1	~(1ph),220V.60Hz	~(1ph),220V.60Hz	~(1ph),220V.60Hz	3~(3ph),220V.60Hz
	Air flow	CMM	45	50	50
	Motor output	kW	0.065	0.085	0.085
					0.065 + 0.065
	Compressor motor output	kW	1.5	1.7	2.2
					2.7
	Crankcase heater	W	38	38	38
					38
	Dimensions (H×W×D)	mm	650×870×295	850×870×295	850×870×295
	Weight	kg	66.5	74	78
					94

Notes: \*1 Refer to the product nameplate attached to the unit for the electrical specifications.

\*2 Rating conditions (cooling) ... Indoor : 27°C DB, 19°C WB Outdoor : 35°C DB

\*3 Rating conditions (cooling) ... Indoor : 29°C DB, 19°C WB Outdoor : 46°C DB, 24°C WB

\*4 Rating conditions (heating) ... Indoor : 21°C DB Outdoor : 7°C DB, 6°C WB

\*5 Specifications subject to change without notice.

## Operating range

		Indoor air intake temperature	Outdoor air intake temperature
Cooling	Maximum	35°C DB, 22.5°C WB	52°C DB
	Maximum	21°C DB, 15.5°C WB	-5°C DB
Heating	Maximum	27°C DB	21°C DB, 15.5°C WB
	Maximum	21°C DB	-8.5°C DB, -9.5°C WB

Units should be installed by licensed electric contractor accordingly to local code requirement.

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 **MITSUBISHI ELECTRIC CORPORATION**  
HEAD OFFICE MITSUBISHI DENKI BLDG MARUNOUCHI TOKYO 100 TELEX J24532 CABLE MELCO TOKYO