



Air-Conditioners

Indoor unit

PLA-A-BA4

Mr. SLIM

OPERATION MANUAL

For safe and correct use, please read this operation manual thoroughly before operating the air-conditioner unit.

FOR USER

English

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1. Safety Precautions

- ▶ Before installing the unit, make sure you read all the “Safety Precautions”.
- ▶ The “Safety Precautions” provide very important points regarding safety. Make sure you follow them.
- ▶ Please report to or take consent by the supply authority before connection to the system.

Symbols used in the text

- ⚠ Warning:**
Describes precautions that should be observed to prevent danger of injury or death to the user.
- ⚠ Caution:**
Describes precautions that should be observed to prevent damage to the unit.

Symbols used in the illustrations

- ⏚** : Indicates a part which must be grounded.

- ⚠ Warning:**
- For appliances not accessible to the general public.
 - The unit must not be installed by the user. Ask the dealer or an authorized company to install the unit. If the unit is installed improperly, water leakage, electric shock or fire may result.
 - Do not stand on, or place any items on the unit.
 - Do not splash water over the unit and do not touch the unit with wet hands. An electric shock may result.
 - Do not spray combustible gas close to the unit. Fire may result.
 - Do not place a gas heater or any other open-flame appliance where it will be exposed to the air discharged from the unit. Incomplete combustion may result.
 - Do not remove the front panel or the fan guard from the outdoor unit when it is running.

- When you notice exceptionally abnormal noise or vibration, stop operation, turn off the power switch, and contact your dealer.
- Never insert fingers, sticks etc. into the intakes or outlets.
- If you detect odd smells, stop using the unit, turn off the power switch and consult your dealer. Otherwise, a breakdown, electric shock or fire may result.
- This air conditioner is NOT intended for use by children or infirm persons without supervision.
- Young children must be supervised to ensure that they do not play with the air conditioner.
- If the refrigeration gas blows out or leaks, stop the operation of the air conditioner, thoroughly ventilate the room, and contact your dealer.

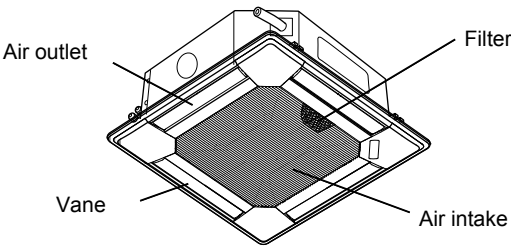
- ⚠ Caution:**
- Do not use any sharp object to push the buttons, as this may damage the remote controller.
 - Never block or cover the indoor or outdoor unit’s intakes or outlets.

Disposing of the unit
When you need to dispose of the unit, consult your dealer.

2. Parts Names

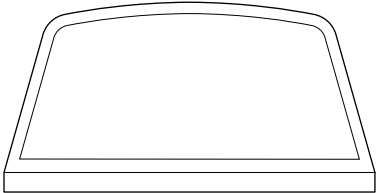
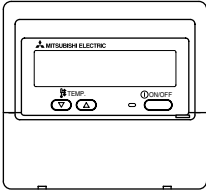
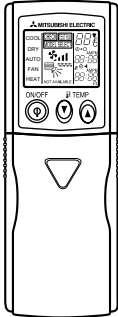
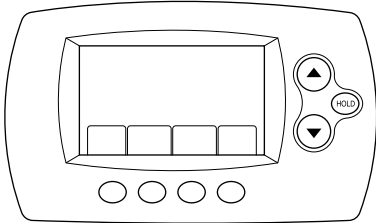
■ Indoor Unit

	PLA-A-BA4
Fan steps	4 steps
Vane	Auto with swing
Louver	—
Filter	Long-life
Filter cleaning indication	2,500 hr



2. Parts Names

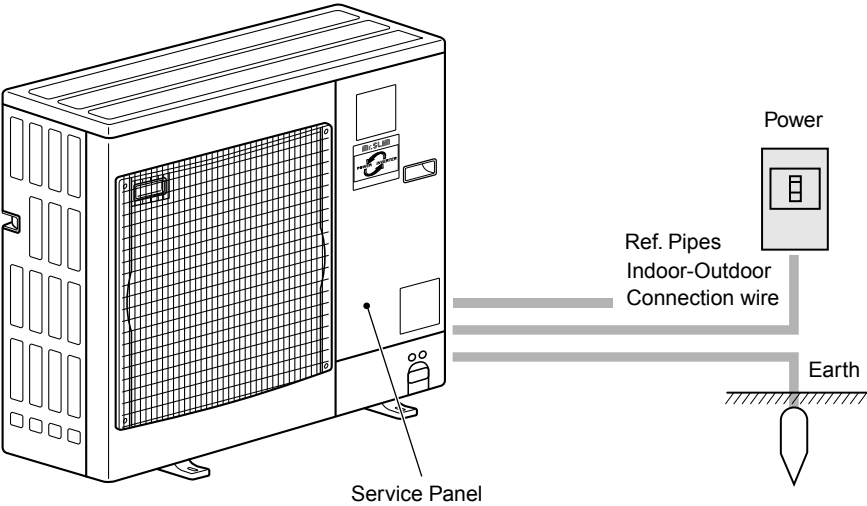
■ Remote controller (Optional parts)

Radio frequency interface	Wired remote controller	IR wireless remote controller
		
RF thermostat		
		

Note: (Only for IR wireless remote controller)

- When using the IR wireless remote controller, point it towards the receiver on the indoor unit.
- If the IR wireless remote controller is operated within approximately two minutes after power is supplied to the indoor unit, the indoor unit may beep twice as the unit is performing the initial automatic check.
- The indoor unit beeps to confirm that the signal transmitted from the IR wireless remote controller has been received. Signals can be received up to approximately 7 meters in a direct line from the indoor unit in an area 45° to the left and right of the unit. However, illumination such as fluorescent lights and strong light can affect the ability of the indoor unit to receive signals.
- If the operation lamp near the receiver on the indoor unit is blinking, the unit needs to be inspected. Consult your dealer for service.
- Handle the IR wireless remote controller carefully! Do not drop the IR wireless remote controller or subject it to strong shocks. In addition, do not get the IR wireless remote controller wet or leave it in a location with high humidity.
- To avoid misplacing the IR wireless remote controller, install the holder included with the IR wireless remote controller on a wall and be sure to always place the IR wireless remote controller in the holder after use.

■ Outdoor unit



3. Operation

■ About the operation method, refer to the operation manual that comes with each remote controller.

3.1. Turning ON/OFF

Note:

Even if you press the ON/OFF button immediately after shutting down the operation is progress, the air conditioner will not start for about three minutes. This is to prevent the internal components from being damaged.

3.2. Operation mode select

Cool/ Dry/ Fan/ Heat/ Automatic (cool/heat)/ ventilation modes are available.

Note:

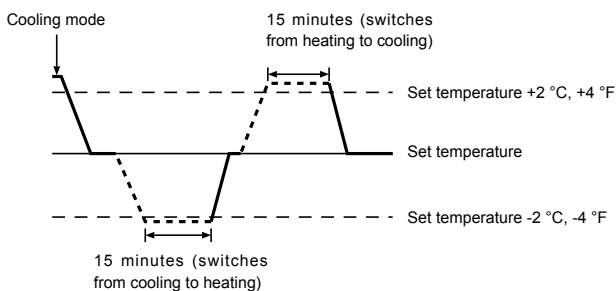
- Heat and Automatic modes can not be available for cooling only units.
- Ventilation mode: only indicated on the following condition.
Wired remote controller is used and LOSSNY is connected.

Information for multi system air conditioner (Outdoor unit: MXZ series)

- ▶ Multi system air conditioner (Outdoor unit: MXZ series) can connect two or more indoor units with one outdoor unit. According to the capacity, two or more units can operate simultaneously.
 - When you try to operate two or more indoor units with one outdoor unit simultaneously, one for the cooling and the other for heating, the operation mode of the indoor unit that operates earlier is selected. The other indoor units that will start the operation later cannot operate, indicating an operation state in blinking. In this case, please set all the indoor units to the same operation mode.
 - There might be a case that the indoor unit, which is operating in (AUTO) mode. Cannot change over to the operating mode (COOL HEAT) and becomes a state of standby.
 - When indoor unit starts the operation while the defrosting of outdoor unit is being done, it takes a few minutes (max. about 15 minutes) to blow out the warm air.
 - In the heating operation, though indoor unit that does not operate may get warm or the sound of refrigerant flowing may be heard, they are not malfunction. The reason is that the refrigerant continuously flows into it.

● Automatic operation

- According to a set temperature, cooling operation starts if the room temperature is too hot and heating operation starts if the room temperature is too cold.
- During automatic operation, if the room temperature changes and remains 2 °C, 4 °F or more above the set temperature for 15 minutes, the air conditioner switches to cooling mode. In the same way, if the room temperature remains 2 °C, 4 °F or more below the set temperature for 15 minutes, the air conditioner switches to heating mode.



3.3. Fan speed setting

Note:

- The number of available fan speeds depends on the type of unit connected.
- In the following cases, the actual fan speed generated by the unit will differ from the speed shown the remote controller display.
 1. When the unit is in "STAND BY" or "DEFROST" states.
 2. When the temperature of the heat exchanger is low in the heating mode. (e.g. immediately after heating operation starts)
 3. In HEAT mode, when room temperature is higher than the temperature setting.
 4. When the unit is in DRY mode.

3.4. Airflow direction setting

Note:

- During swing operation, the directional indication on the screen dose not change in sync with the directional vanes on the unit.
- Available directions depend on the type of unit connected.
- In the following cases, the actual air direction will differ from the direction indicated on the remote controller display.
 1. When the unit is in "STAND BY" or "DEFROST" states.
 2. Immediately after starting heater mode (while the system is waiting for the mode change to take effect).
 3. In heat mode, when room temperature is higher than the temperature setting.

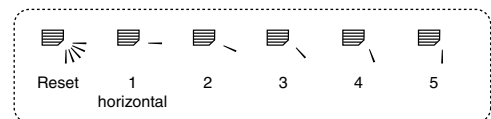
<How to set the fixed up/down air direction (Only for wired remote controller)>

Note:

- This function cannot be set depending on the outdoor unit to be connected.
- For PLA-A-BA4, only the particular outlet can be fixed to certain direction with the procedures below. Once fixed, only the set outlet is fixed every time air conditioner is turned on. (Other outlets follow UP/ DOWN air direction setting of wired remote controller.)

■ Explanation of word

- "Refrigerant address No." and "Unit No." are the numbers given to each air conditioner.
- "Outlet No." is the number given to each outlet of air conditioner. (Refer to the right.)
- "Up/Down air direction" is the direction (angle) to fix.



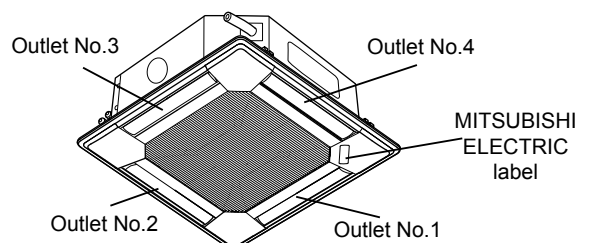
Wired remote controller setting

The airflow direction of this outlet is controlled by the airflow direction setting of wired remote controller.

Fixing

The airflow direction of this outlet is fixed in particular direction.

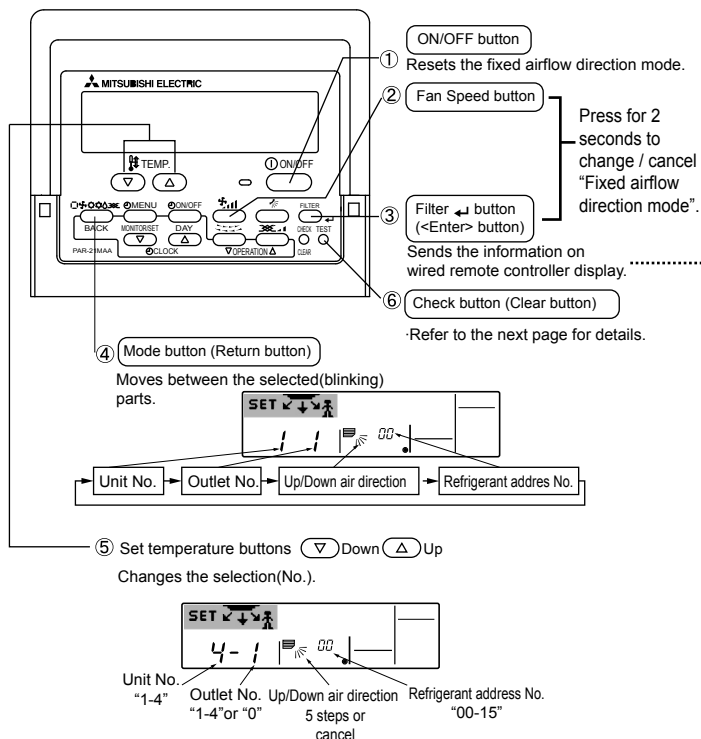
※ When it is cold because of direct airflow, the airflow direction can be fixed horizontally to avoid direct airflow.



Note: "0" indicates all outlets.

3. Operation

Operation buttons (During the fixed airflow direction mode)



■ Pressing the button with either refrigerant address No., unit no. or outlet No. blinking, ...

Only the air conditioner with the No. on wired remote controller and its outlet are set to the setting 5. (Other outlets are closed.)
It is used to identify the air conditioner and outlet to set.

■ Pressing the button with Up/Down air direction indicator blinking

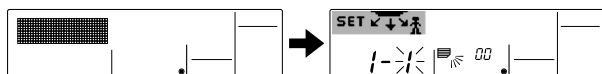
Attention
Only the air conditioner with the No. on Wired remote controller and its outlet are fixed at "Up/Down air direction" blinking.
This is used only to decide direction conclusively.
Attention: Be careful not to set wrong air conditioner.

<Process for setting>

[1] To turn off air conditioner and change the wired remote controller to "Fixed airflow direction mode"

1. Press ON/OFF button ① to turn off the air conditioner.
2. Press Fan Speed button ② and Filter button ③ for more than 2 seconds simultaneously and it becomes the fixed airflow direction mode after a while.

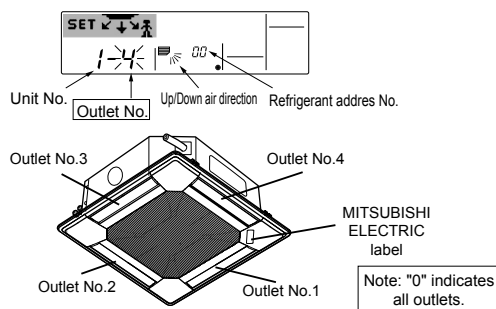
"Fixed airflow direction mode" display



※ Air blows downward after it becomes "fixed airflow direction mode"

[2] To select and identify the outlet to set

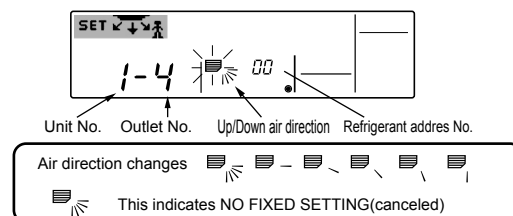
1. Press Set Temperature button ⑤ to change number with the outlet No. blinking. Select outlet No. to set.



2. Press Filter button ③ to send the information on wired remote controller.
3. Wait for 15 seconds. How does the air conditioner run?
→ Only the air from the selected outlet blows downward.
→ Go to step[3].
→ Air from the wrong outlet blows downward.
→ Repeat 1 and set again.
→ All outlets are closed.
→ The numbers of the air conditioner (refrigerant address No., Unit No.) are wrong. Refer to How to find air conditioner No..

[3] To fix air direction

1. Press Mode button (Return button) ④ to blink Up/Down air direction indicator.
2. Press Set Temperature button ⑤ until the direction to set is chosen.
3. Press Filter button ③ to send the information on wired remote controller to air conditioner.
4. Wait for 15 seconds. How does the air conditioner run?
→ Airflow direction is set in the selected direction.
→ The fixed setting completed (Go to step [4].)
→ Airflow direction is set in the wrong direction.
→ Repeat 2. and set again.



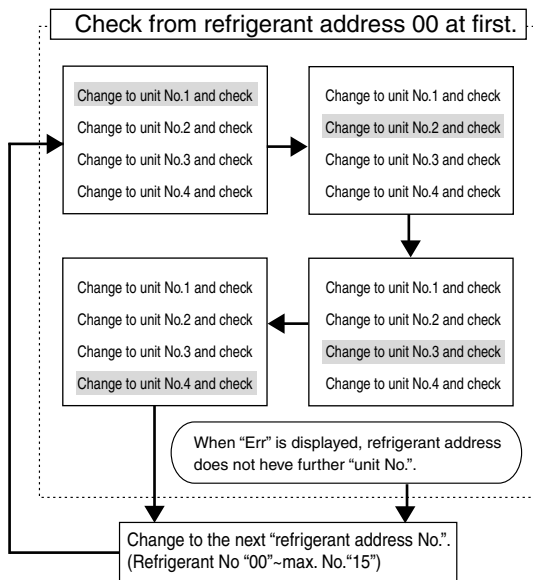
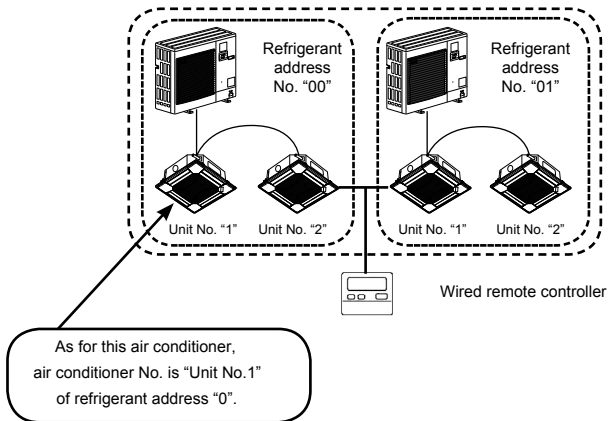
[4] To cancel "Fixed airflow direction mode"

1. Press ON/OFF button ① to cancel "Fixed airflow direction mode". It is also canceled by pressing Fan Speed button ② and Filter button ③ for more than 2 seconds simultaneously.
2. Do not operate wired remote controller for 30 seconds after the "Fixed airflow direction mode" is canceled. It does not accept even if it is operated.

3. Operation

■ How to find air conditioner No.

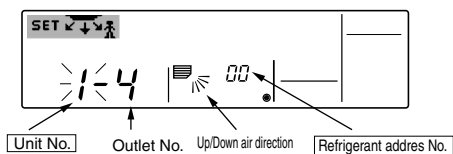
Each air conditioner has its own refrigerant address No. and unit No. (Example below).
To find air conditioner No. to set, refer to the procedures below.
Air conditioner No. is found by its airflow direction with the unit No. changed one after the other.



<Process to find air conditioner No.>

[1] To check refrigerant address No. and unit No.

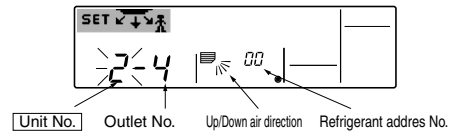
1. Press Mode button (Return button) ④ and unit No. or refrigerant address No. blinks.
Adjust refrigerant address No. to "00" and unit No. "1" with Set Temperature button ⑤.



2. Press Filter button ③ to send the information on wired remote controller.
3. Wait for 15 seconds. How does the air conditioner run?
→ Only air from the outlet which No. displayed on wired remote controller blows downward.
→ Refrigerant address No. 00 and unit No. 1 are the air conditioner No..
→ All outlets are closed.
→ Go to step [2].

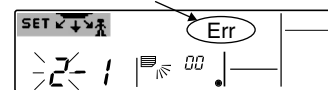
[2] To check by changing unit No. one after the other (Maximum unit No. is 4)

1. Press Mode button (Return button) ④ and unit No. blinks.



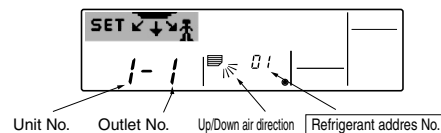
Adjust to the next unit No. with Set Temperature button ⑤. (refrigerant address No. 00 is remained.)

2. Press Filter button ③ to send the information on wired remote controller.
3. Wait for 15 seconds. How does the air conditioner run?
→ Only air from the outlet which No. displayed on wired remote controller blows downward.
→ No. displayed in wired remote controller is air conditioner No. (Checking completed).
→ All outlets are closed.
→ Repeat [1] and check. (If all the numbers are checked up to No. 4 and is not found, go to [3].)
→ "Err" is displayed on wired remote controller.
→ The refrigerant address does not have further unit No.. (Go to [3].)



[3] To check Unit No. of following refrigerant address No. (Maximum refrigerant address No. is 15)

1. Press Mode button (Return button) ④ to blink refrigerant address No..
Adjust refrigerant No. with Set Temperature button ⑤.
- * By changing refrigerant address, unit No. and outlet No. turn to initial display.
2. Go back to [2] and check Unit No. again from Unit No. 1 in order.



To clear fixed setting

To clear all fixed setting (reset to factory default), press check button (clear button) ⑥ for wired more than 3 seconds in fixed airflow direction mode.
Display of wired remote controller blinks and the set information is cleared.

Note:

This operation clears the fixed setting information of all air conditioner connected to the wired remote controller.

3.5. Ventilation

► For LOSSNAY combination

- The following 2 patterns of operation is available.
 - Run the ventilator together with the indoor unit.
 - Run the ventilator independently.

Note: (for IR wireless remote controller and RF thermostat)

- Running the ventilator independently is not available.
- No indication on the remote controller.

4. Timer

- Timer functions are different by each remote controller.
- For details on how to operate the remote controller, refer to the appropriate operation manual included with each remote controller.

5. Care and Cleaning

- Following indication shows that the filter needs cleaning.
 - Wired remote controller : "FILTER"
 - RF thermostat : "Clean Filter"Ask authorized people to clean the filter.
- When resetting "FILTER" or "Clean Filter" display.
Resetting the indication, refer to the operation manual of each remote controller.

Note:

- When two or more different types of indoor unit are controlled, the cleaning period differs with the type of filter. When the master unit cleaning period arrives, "FILTER" is displayed. When the filter display goes off, the cumulative time is reset. (Only for wired remote controller)
- "FILTER" or "Clean Filter" indicates the cleaning period when the air conditioner was used under general indoor air conditions by criteria time. Since the degree of dirtiness depends on the environmental conditions, clean the filter accordingly.
- The filter cleaning period cumulative time differs with the model.
- This indication is not available for IR wireless remote controller.

► Cleaning the filters

- Clean the filters using a vacuum cleaner. If you do not have a vacuum cleaner, tap the filters against a solid object to knock off dirt and dust.
- If the filters are especially dirty, wash them in lukewarm water. Take care to rinse off any detergent thoroughly and allow the filters to dry completely before putting them back into the unit.

⚠ Caution:

- Do not dry the filters in direct sunlight or by using a heat source, such as an electric heater: this may warp them.
- Do not wash the filters in hot water (above 50°C, 122°F), as this may warp them.
- Make sure that the air filters are always installed. Operating the unit without air filters can cause malfunction.

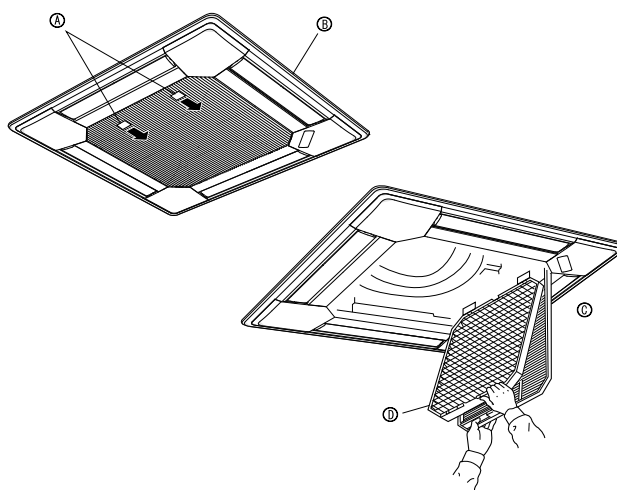
⚠ Caution:

- Before you start cleaning, stop operation and turn OFF the power supply.
- Indoor units are equipped with filters to remove the dust of sucked-in air. Clean the filters using the methods shown in the following sketches.

► Filter removal

⚠ Caution:

- In removing the filter, precautions must be taken to protect your eyes from dust. Also, if you have to climb up on a stool to do the job, be careful not to fall.
- When the filter is removed, do not touch the metallic parts inside the indoor unit, otherwise injury may result.



- ① Pull the knob on the intake grille in the direction indicated by the arrow and it should open.
 - ② Open the intake grille.
 - ③ Release the knob on the center edge of the intake grille and pull the filter forward to remove the filter.
- Ⓐ Knob Ⓑ Grille Ⓒ Intake grille Ⓓ Filter

6. Trouble Shooting

Having trouble?	Here is the solution. (Unit is operating normally.)
Air conditioner does not heat or cool well.	■ Clean the filter. (Airflow is reduced when the filter is dirty or clogged.) ■ Check the temperature adjustment and adjust the set temperature. ■ Make sure that there is plenty of space around the outdoor unit. Is the indoor unit air intake or outlet blocked? ■ Has a door or window been left open?
When heating operation starts, warm air does not blow from the indoor unit soon.	■ Warm air does not blow until the indoor unit has sufficiently warmed up.
During heating mode, the air conditioner stops before the set room temperature is reached.	■ When the outdoor temperature is low and the humidity is high, frost may form on the outdoor unit. If this occurs, the outdoor unit performs a defrosting operation. Normal operation should begin after approximately 10 minutes.
Airflow direction changes during operation or airflow direction cannot be set.	■ During cooling mode, the vanes automatically move to the horizontal (down) position after 1 hour when the down (horizontal) airflow direction is selected. This is to prevent water from forming and dripping from the vanes. ■ During heating mode, the vanes automatically move to the horizontal airflow direction when the airflow temperature is low or during defrosting mode.
When the airflow direction is changed, the vanes always move up and down past the set position before finally stopping at the position.	■ When the airflow direction is changed, the vanes move to the set position after detecting the base position.
A flowing water sound or occasional hissing sound is heard.	■ These sounds can be heard when refrigerant is flowing in the air conditioner or when the refrigerant flow is changing.
A cracking or creaking sound is heard.	■ These sounds can be heard when parts rub against each due to expansion and contraction from temperature changes.
The room has an unpleasant odor.	■ The indoor unit draws in air that contains gases produced from the walls, carpeting, and furniture as well as odors trapped in clothing, and then blows this air back into the room.
A white mist or vapor is emitted from the indoor unit.	■ If the indoor temperature and the humidity are high, this condition may occur when operation starts. ■ During defrosting mode, cool airflow may blow down and appear like a mist.
Water or vapor is emitted from the outdoor unit.	■ During cooling mode, water may form and drip from the cool pipes and joints. ■ During heating mode, water may form and drip from the heat exchanger. ■ During defrosting mode, water on the heat exchanger evaporates and water vapor may be emitted.
The operation indicator does not appear in the wired remote controller display. (*1)	■ Turn on the power switch. "●" will appear in the wired remote controller display.
"❏" appears in the wired remote controller display. (*1)	■ During central control, "❏" appears in the wired remote controller display and air conditioner operation cannot be started or stopped using the wired remote controller.
When restarting the air conditioner soon after stopping it, it does not operate even though the ON/OFF button is pressed.	■ Wait approximately three minutes. (Operation has stopped to protect the air conditioner.)
Air conditioner operates without the ON/OFF button being pressed. (*1)	■ Is the on timer set? Press the ON/OFF button to stop operation. ■ Is the air conditioner connected to a central wired remote controller? Consult the concerned people who control the air conditioner. ■ Does "❏" appear in the wired remote controller display? Consult the concerned people who control the air conditioner. ■ Has the auto recovery feature from power failures been set? Press the ON/OFF button to stop operation.
Air conditioner stops without the ON/OFF button being pressed. (*1)	■ Is the off timer set? Press the ON/OFF button to restart operation. ■ Is the air conditioner connected to a central wired remote controller? Consult the concerned people who control the air conditioner. ■ Does "❏" appear in the wired remote controller display? Consult the concerned people who control the air conditioner.
Wired remote controller timer operation cannot be set. (*1)	■ Are timer settings invalid? If the timer can be set, WEEKLY, SIMPLE, or AUTO OFF appears in the wired remote controller display.
"PLEASE WAIT" appears in the wired remote controller display. (*1)	■ The initial settings are being performed. Wait approximately 3 minutes.
An error code appears in the remote controller display.	■ The protection devices have operated to protect the air conditioner. ■ Do not attempt to repair this equipment by yourself. Turn off the power switch immediately and consult your dealer. Be sure to provide the dealer with the model name and information that appeared in the remote controller display.
Draining water or motor rotation sound is heard.	■ When cooling operation stops, the drain pump operates and then stops. Wait approximately 3 minutes.

6. Trouble Shooting

Having trouble?	Here is the solution. (Unit is operating normally.)												
Noise is louder than specifications.	■ The indoor operation sound level is affected by the acoustics of the particular room as shown in the following table and will be higher than the noise specification, which was measured in anechoic room. <table><tr><td></td><td>High sound absorbing rooms</td><td>Normal rooms</td><td>Low sound absorbing rooms</td></tr><tr><td>Location examples</td><td>Broadcasting studio, music room, etc.</td><td>Reception room, hotel lobby, etc.</td><td>Office, hotel room</td></tr><tr><td>Noise levels</td><td>3 to 7 dB</td><td>6 to 10 dB</td><td>9 to 13 dB</td></tr></table>		High sound absorbing rooms	Normal rooms	Low sound absorbing rooms	Location examples	Broadcasting studio, music room, etc.	Reception room, hotel lobby, etc.	Office, hotel room	Noise levels	3 to 7 dB	6 to 10 dB	9 to 13 dB
	High sound absorbing rooms	Normal rooms	Low sound absorbing rooms										
Location examples	Broadcasting studio, music room, etc.	Reception room, hotel lobby, etc.	Office, hotel room										
Noise levels	3 to 7 dB	6 to 10 dB	9 to 13 dB										
Nothing appears in the IR wireless remote controller display, the display is faint, or signals are not received by the indoor unit unless the IR wireless remote controller is close. (*2)	■ The batteries are low. Replace the batteries and press the Reset button. ■ If nothing appears even after the batteries are replaced, make sure that the batteries are installed in the correct directions (+, -).												
The operation lamp near the receiver for the IR wireless remote controller on the indoor unit is blinking. (*2)	■ The self diagnosis function has operated to protect the air conditioner. ■ Do not attempt to repair this equipment by yourself. Turn off the power switch immediately and consult your dealer. Be sure to provide the dealer with the model name.												

(*1): Only for wired remote controller.

(*2): Only for IR wireless remote controller.

7. Specifications

Model		PLA-A12BA4	PLA-A18BA4	PLA-A24BA4	PLA-A30BA4	PLA-A36BA4	PLA-A42BA4
Power source (Phase, Voltage<V>)		Single 208/230,60					
Frequency <Hz>							
Fan motor <FLA>		0.22	0.36	0.36	0.51	0.94	1.00
MCA <A>		1	1	1	1	2	2
MOCP <A>		15	15	15	15	15	15
Dimension (Height) <inch>		10-3/16 (1-3/8)				11-3/4 (1-3/8)	
Dimension (Width) <inch>		33-1/16 (37-3/8)					
Dimension (Depth) <inch>		33-1/16 (37-3/8)					
Airflow	DRY <CFM>	390-420-460-530	420-490-570-640	420-490-570-640	490-570-640-740	710-810-920-1060	780-880-990-1090
(Low-Middle2-Middle1-High)	WET <CFM>	350-390-420-490	390-460-530-600	390-460-530-600	460-530-600-710	670-780-880-1030	740-850-950-1060
Noise level (Low-Middle2-Middle1-High) <dB>		27-28-29-31	28-29-31-32	28-29-31-32	28-30-32-34	32-34-37-40	34-36-39-41
Net weight <lbs>		49 (13)		51 (13)		55 (13)	

*1 The figure in () indicates GRILL'S.

This product is designed and intended for use in the residential,
commercial and light-industrial environment.

Please be sure to put the contact address/telephone number on
this manual before handing it to the customer.