

Packaged Air-Conditioners INDOOR UNIT **PEA-M180,200,250LAA**

OPERATION MANUAL

FOR USER

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

Contents

Note: The p

The phrase "Wired remote controller" in this operation manual refers only to the PAR-40MAA. If you need any information for the other remote controller, please refer to the instruction book included in this box.

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.

MEANINGS OF SYMBOLS ON THE UNIT

 WARNING (Risk of fire)
 This symbol is only for R32 refrigerant. The type of the refrigerant used is written on the nameplate on the outdoor unit.

 R32 refrigerant is flammable. If the refrigerant leaks, or comes in contact with fire or parts that generate heat, it may create harmful gas and pose a risk of fire.

 Read the OPERATION MANUAL carefully before operation.

Service personnel are required to carefully read the OPERATION MANUAL and INSTALLATION MANUAL before operation.

Further information is available in the OPERATION MANUAL, INSTALLATION MANUAL, and the like.

Symbols used in the text

⚠ Warning:

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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.

Marning:

- These appliances are 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.
- When installing, relocating, or servicing the air conditioner, use only the specified refrigerant written on the outdoor unit to charge the refrigerant lines. Do not mix the refrigerant with any other refrigerant, and do not allow air to remain in the lines.
 - If air is mixed with the refrigerant, then it may cause abnormal high

pressure in the refrigerant lines, resulting in an explosion and other hazards.

- The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction, or unit breakdown. In the worst case, this could lead to a serious impediment to securing product safety.
- It may also be in violation of applicable laws.

Symbols used in the illustrations (1) : Indicates a part which must be grounded.

- MITSUBISHI ELECTRIC CORPORATION cannot be held responsible for malfunctions or accidents resulting from the use of the wrong type of refrigerant.
- This indoor unit should be installed in a room which is equal to or larger than the floor space specified in the outdoor unit installation manual. Refer to the outdoor unit installation manual.
- Only use means recommended by the manufacturer to accelerate the defrosting process or to clean.
- This indoor unit shall be stored in a room that has no continuously-operating ignition device such as open flame, gas appliance, or electrical heater.
- Do not pierce a hole in or burn this indoor unit or refrigerant lines.
- · Be aware that the refrigerant may be odour-free.

1. Safety Precautions

⚠ 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.

2. Parts Names

Indoor Unit

	PEA-M·LAA
Fan steps	4 steps
Vane	—
Louver	—
Filter	Optional parts
Filter cleaning indication	_

Disposing of the unit

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



2. Parts Names

Wired Remote Controller Controller interface



1 [ON/OFF] button

Press to turn ON/OFF the indoor unit.

2 [SELECT] button

Press to save the setting.

3 [RETURN] button

Press to return to the previous screen.

4 [MENU] button

Press to bring up the Main menu.

5 Backlit LCD

Operation settings will appear.

When the backlight is off, pressing any button turns the backlight on and it will stay lit for a certain period of time depending on the screen.

When the backlight is off, pressing any button turns the backlight on and does not perform its function. (except for the [ON/OFF] button) The functions of the function buttons change depending on the screen.

Refer to the button function guide that appears at the bottom of the LCD for the functions they serve on a given screen. When the system is centrally controlled, the button function guide that corresponds to the locked button will not appear.



6 ON/OFF lamp

This lamp lights up in green while the unit is in operation. It blinks while the remote controller is starting up or when there is an error.

Function button [F1]

Main display: Press to change the operation mode. Main menu: Press to move the cursor down.

8 Function button [F2]

Main display: Press to decrease temperature. Main menu: Press to move the cursor up.

9 Function button [F3]

Main display: Press to increase temperature. Main menu: Press to go to the previous page.

10 Function button [F4]

Main display: Press to change the fan speed. Main menu: Press to go to the next page.

2. Parts Names

Display

The main display can be displayed in two different modes: "Full" and "Basic". The factory setting is "Full". To switch to the "Basic" mode, change the setting on the Main display setting. (Refer to operation manual included with remote controller.)

<Full mode>

* All icons are displayed for explanation.



1 Operation mode

Indoor unit operation mode appears here.

2 Preset temperature

Preset temperature appears here.

3 Clock (See the Installation Manual.)

Current time appears here.

4 Fan speed

Fan speed setting appears here.

5 Button function guide

Functions of the corresponding buttons appear here.

6 (

Appears when the ON/OFF operation is centrally controlled.

7

Appears when the operation mode is centrally controlled.

8 20

Appears when the preset temperature is centrally controlled.

9 🏙

Appears when the filter reset function is centrally controlled.

10

Indicates when filter needs maintenance.

(1) Room temperature (See the Installation Manual.)

Current room temperature appears here.

Appears when the buttons are locked.

Appears when the On/Off timer, Night setback, or Auto-off timer function is enabled.

appears when the timer is disabled by the centralized control system.

em.

<Basic mode>



Appears when the Weekly timer is enabled.

15 🖨

Appears while the units are operated in the energy-save mode. (Will not appear on some models of indoor units)

16 5

Appears while the outdoor units are operated in the silent mode.

17

Appears when the built-in thermistor on the remote controller is activated to monitor the room temperature ($(\ensuremath{\overline{0}})$).

1 = 1 appears when the thermistor on the indoor unit is activated to monitor the room temperature.

18 **O**

Indicates the vane setting

19 🐷

Indicates the louver setting.

20 🕉

Indicates the ventilation setting.

21 (

Appears when the preset temperature range is restricted.

22 🥑

Appears when an energy-saving operation is performed using a "3D i-See sensor" function.

23 Centrally controlled

Appears for a certain period of time when a centrally-controlled item is operated.

24 Error display

An error code appears during the error.

* When an error code is displayed on the main display, an error is occurring but the indoor unit can keep its operation. Check the error code, and consult your dealer.

Most settings (except ON/OFF, mode, fan speed, temperature) can be made from the Menu screen. (Refer to operation manual included with remote controller.)

Outdoor unit



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

3.1. Turning ON/OFF

[ON]



Press the [ON/OFF] button. The ON/OFF lamp will light up in green, and the operation will start.

Operation status memory

	Remote controller setting			
Operation mode	Operation mode before the power was turned off			
Preset temperature Preset temperature before the power was turn				
Fan speed	Fan speed before the power was turned off			

[OFF]



Press the [ON/OFF] button again. The ON/OFF lamp will come off, and the operation will stop.

Settable preset temperature range

Operation mode	Preset temperature range
Cool/Dry	19 – 30 °C
Heat	17 – 28 °C
Auto	19 – 28 °C
Fan/Ventilation	Not settable

3.2. Mode select



Each pressing of the [F1] button cycles through the following operation modes. Select the desired operation mode.

Fan

 ☆
 Cool
 ▲
 Dry
 S

 ↓↓
 Auto

 Heat

 Operation modes that are not available to the connected indoor unit models will not appear on the display.

What the blinking mode icon means

The mode icon will blink when other indoor units in the same refrigerant system (connected to the same outdoor unit) are already operated in a different mode. In this case, the rest of the unit in the same group can only be operated in the same mode.

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 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 or more below the set temperature for 15 minutes, the air conditioner switches to heating mode.



Because the room temperature is automatically adjusted in order to maintain a fixed effective temperature, cooling operation is performed a few degrees warmer and heating operation is performed a few degrees cooler than the set room temperature once the temperature is reached (automatic energy-saving operation).

3.3. Temperature setting <Cool, Dry, Heat, and Auto>



Press the [F2] button to decrease the preset temperature, and press the [F3] button to increase.

- Refer to the table in section 3.1. for the settable temperature range for different operation modes.
- Preset temperature range cannot be set for Fan/Ventilation operation.
- Preset temperature will be displayed either in Centigrade in 0.5- or 1-degree increments, or in Fahrenheit, depending on the indoor unit model and the display mode setting on the remote controller.

3.4. Fan speed setting



Press the [F4] button to go through the fan speeds in the following order.



3.5. Ventilation

3.5.1. Navigating through the Main menu <Accessing the Main menu>



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<Item selection>

Press the [MENU] button. The Main menu will appear.

<Returning to the Operation menu>



Press the [RETURN] button to go back to the Operation menu.



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Press [F2] to move the cursor left. Press [F3] to move the cursor right.



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3.5.2. Vane-Vent. (Lossnay) <Accessing the menu>



Select "Operation" from the Main menu, and press the [SELECT] button.



Select "Vane · Louver · Vent. (Lossnay)" ▶Vane Louver Vent. (Lossnay) High power Comfort from the Operation menu, and press the [SELECT] button.

×

Cursor



<Ventilation setting>

Main menu: 🔊



Each pressing of the [F3] button cycles through the following ventilation settings.





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· The fan on some models of indoor units may be interlocked with certain models of ventilation units.

¢Ξ

- 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. Emergency Operation for Wireless Remote-controller (option)



ON/OFF lamp (lit when unit is operating; unlit when unit is not operating)

2 Emergency operation

In cases where the remote control unit does not operate properly, use either the OOL or \oiint{OOL} or \oiint{OOL} button on the wireless remote control signal receiver to toggle the unit on or off. On cooler only units, pushing the \oiint{OOL} HEAT button toggles the fan on and off.

Pressing the COOL or 🔅 HEAT button selects the following settings.

Operation mode	COOL	HEAT
Preset temperature	24 °C/75 °F	24 °C/75 °F
Fan speed	High	High

6. Filter Preparation

• Install an optional filter or a locally procured filter at the air inlet. For the filter installation or maintenance procedures, see the usage instructions for the filter.

7. Trouble Shooting

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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 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.
"on" appears in the remote controller display.	 During central control, "On" appears in the remote controller display and air conditioner operation cannot be started or stopped using the 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.	Is the on timer set? Press the ON/OFF button to stop operation.
	 Is the air conditioner connected to a central remote controller? Consult the concerned people who control the air conditioner.
	Does "Ob" appear in the 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.	 Is the off timer set? Press the ON/OFF button to restart operation.
	 Is the air conditioner connected to a central remote controller? Consult the concerned people who control the air conditioner.
	Does " To appear in the remote controller display? Consult the concerned people who control the air conditioner.
Remote controller timer operation cannot be set.	 Are timer settings invalid? If the timer can be set, One of appears in the remote controller display.
"PLEASE WAIT" appears in the remote controller display.	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.
The vanes do not move or the indoor unit does not respond to input from the wireless remote controller.	 The junction wire connectors of the vane motor and signal receiver may not be connected correctly. Have an installer check the connections. (The colors of the male and female sections of the junction wire connectors must match.)

7. Trouble Shooting

Having trouble?	Here is the solution. (Unit is operating normally.)		mally.)		
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 the noise specification, which was measured in an echo-free room				vill be higher than
			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 wireless remote controller display, the display is faint, or signals are not received by the indoor unit unless the remote controller is close.	 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 wireless remote controller		■ The self diagnosis function has operated to protect the air conditioner.			
on the indoor unit is flashing.	 Do not attempt to repair this equipment by yourself. Turn off the power switch immediately and consult your dealer. B to provide the dealer with the model name. 				our dealer. Be sure
The wireless remote controller does not operate (the indoor unit beeps 4 times).	 Switch the auto mode setting to the AUTO (single set point) mode or AUTO (dual set point) mode. For details, refer to the included Notice (A5 sheet) or the Installation Manual. 				

8. Specifications

Item			Model	PEA-M180LAA	PEA-M200LAA	PEA-M250LAA	
Power sour	се			220-240 V 50 Hz			
Dimension	Height / Width / Depth		mm	470/1370/1120			
Net weight			kg	88			
	Airflow rate	75Pa	m³/min	36-50-61-72	36-50-61-72	42-58-72-84	
	(Low-Middle1-Middle2-High)	100Pa	m³/min	36-50-61-72	36-50-61-72	42-58-72-84	
Fan		150Pa	m³/min	36-50-61-72	36-50-61-72	42-58-72-84	
		200Pa	m³/min	36-50-61-72	36-50-61-72	36-50-61-72	
		250Pa	m³/min	36-42-51-60	36-42-51-60	36-42-51-60	
	External static pressure		Pa		75/100/150/200/250		
Sound pres	sure level	75Pa	dB(A)	30-37.5-42-46	30-37.5-42-46	32.5-40-45.5-48.5	
(Low-Middle	e1-Middle2-High)	100Pa	dB(A)	30.5-38.5-43-47	30.5-38.5-43-47	33-41-46-49.5	
-	_ /	150Pa	dB(A)	32.5-40-45-49	32.5-40-45-49	34-42.5-47.5-51	
		200Pa	dB(A)	34-41.5-46.5-50.5	34-41.5-46.5-50.5	34-41.5-46.5-50.5	
		250Pa	dB(A)	38-41.5-46.5-50.5	38-41.5-46.5-50.5	38-41.5-46.5-50.5	

Notes:

The airflow rate is measured according to the JIS standard.
 The external static pressure is set to 75 Pa at factory shipment.
 The airflow rate will differ from the specification value when the external static pressure is set to 150 or 200 Pa. See the DATABOOK for details.

4. Specifications subject to change without notice.

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