

MITSUBISHI ELECTRIC Package Air-Conditioner Grille (Optional Part) / PLP-6EAJ **Automatic Filter Elevation Panel Installation Manual**

PLP-6EAJE (with "i-see Sensor")

Safety precautions

 Before installation, make sure to read all the "Safety precautions that must be followed" and perform it accurately. • The precautions herein provide very important points regarding safety. Make sure you follow them. · Symbols used in this manual are categorized as follows according to the degree of risk when used improperly:

Warning	Describes warnings that must be observed to prevent serious consequences, such as serious injury or death of the user.

Caution Describes precautions that must be observed to prevent damage to the unit.

• After installation, describe the user "Safety Precautions", how to use, and how to care for and clean the unit following the operation manual, and test run the unit to check whether there are any problems. In addition, direct the user to keep this installation manual together with the operation manual, and, should the users change, to give the manuals to the new user.

<u>.</u> ₩a	arning					
Wiring must be done properly using specific cables and fixed so that external pressure from the cable will not transmit to the terminal area. Never splice the cables for wiring.	Do not mix substances other than the designated refrigerant in the refrigerant cycle when installing and/or moving the unit.					
 If the connection and/or fixation are not done properly, or if the cables are spliced, heat or fire may result. 	the refrigerant cycle, which may cause explosion.					
Never make alterations to the unit.	If the unit is installed improperly, water leakage, electric shock or fire may result. Ask the dealer or an authorized company to do so.					
the unit is repaired improperly, water leakage, electric shock or fire may result.	Use genuine Mitsubishi parts such as humidifier and high performance filters (sold separately).					
Ask the dealer or an authorized technician to install the unit. • If the unit is installed improperly by the user, water leakage, electric	 Ask an authorized company to install. If the unit is installed by the user improperly, water leakage, electric shock or fire may result. 					
shock or fire may result.	Terminal board cover (panel) of the indoor/outdoor unit must be installed properly.					
 If the unit is installed improperly, water leakage, electric shock or fire may result. 	• If the terminal board cover (panel) is installed improperly, fire or electric shock may result due to dust or water.					
Installation must be done in proper order in case of strong wind such as storms and earthquakes.	Make sure the refrigerant has not leaked after installation. • In case the refrigerant leaks into the room and comes in contact with					
• If the unit is installed improperly, there is a risk that a fall may result.	a fan heater, heater, or stove burner, noxious fumes may be produced.					
The unit must be securely installed on a surface that is able to support the weight of the unit. • If the surface does not have sufficient strength, accidents may result	Electrical work must be done by an authorized engineer following "Technical standards for electrical equipment", "Extension Code" and this installation manual and using dedicated communication circuit and rated power voltage/circuit breakers.					
due to falling of the unit.	• If the electrical circuit does not have sufficient capacity or if the unit is installed improperly, electric shock or fire may result.					
prevent exceeding the concentration limit of refrigerant in the	Turn off the main power before the installation work.					
case of refrigerant leakage.	Otherwise, injury or electric shock may result.					
 Ask a dealer about measures to prevent the exceeding the concentration limit. If there is any chance of refrigerant leakage and 	Ventilate the room if refrigerant leaks out during installation.					
its concentration exceeds the limit, it may result in lack of oxygen.	• When refrigerant comes in contact with fire, noxious fumes may be produced.					

Before installation(Environment)

≜ Caution								
Do not use the unit in unusual environment.	The unit must not be used for special purposes such as							
 If used in an environment with a large amount of volatile oil (including mechanical oil), steam, or sulfidizing gas or where it is high 	the storage of precision apparatuses, food, animals and plants, and art objects.							
in salt content such as a seashore where the outdoor unit may	• It may cause deterioration in quality of the objects.							
may become damaged.	Do not install the unit above objects that should not get wet.							
Do not install the unit in an area where flammable gas may be generated, flow in, be retained or leaked.	 In case humidity exceeds 80% or the drain outlet is blocked, dew ma fall from the indoor unit. When the heating function is on, water leaks from the outdoor unit; intensive drain work may be done to the 							
• In case gas leaks around the unit, fire or explosion may result.	outdoor unit as needed.							
If the unit is installed in a hospital or telecommunications office, preparation for noise must be adequately completed.								
• The effect of inverter equipment, private power generators, high-frequency medical devices and radio communication devices may result in malfunctions and/or damage of the air-conditioner. Air-conditioners may affect medical devices or telecommunications devices to interfere with medical treatment or cause adverse effects such as disturbance of broadcasting and/or noise bursts.								

Before installation(Relocation)

<u>/!\</u> Caution						
Do not neglect damaged platforms.	Do not wash the air-conditioner.					
If left damaged, the unit may fall and result in injury.	Doing so may cause electric shock.					
Transport of the product must be done carefully.	Drain piping must be done properly according to the installation manual to drain water and must be heat insulated to prevent bedewing.					
people. Make sure you move the product holding only the designated handle but not a PP band and such. Use protectors to prevent injury;	• If piping is not properly installed, water leakage may result, which wil make the ceilings, floors or other household items wet.					
do not touch the fins or the edge of part with your bare hands.	Make sure heat insulation for refrigerant piping is properly installed to prevent bedewing. • If heat insulation is not done properly, bedewing of the surfaces such as piping may result, which will make the ceilings, floors, or other valuable items wet.					
Appropriately dispose of packages.						
• Packaging may contain metal objects such as "nails" and wood chips. So injury may result if disposal is neglected.						
Make sure that the joints are locked securely and they do not	• Insulation for the joint part must be done after an air tightness test.					
Otherwise, the intake grille may drop off and cause an injury or a failure	Make sure to hang the safety strap of the intake grille while temporarily installing the grille.					
	• Otherwise, the intake grille may drop off and cause an injury or a failure.					

Before electrical work

Make sure to install a short circuit breaker to the power.	Unit must be grounded.						
• If a short circuit breaker is not installed, electric shock may result.	• Do not connect the ground wires with ground wires for gas pipes, water pipes, conductor rods, or telephones. If the unit is not properly grounded, electric shock may result.						
Use proper electrical cables to meet the standard for current capacity.							
If improper electrical cables are used, short circuit, heat, or fire may result.	Use fuses with appropriate capacity such as short circuit breake hand switch (switch + type B fuse), and circuit breakers for wirin devices.						
Electrical wiring must be done without tension.	• If fuses, wires, and copper wires with larger capacities are used,						
• If there is tension on the cables, wire disconnection, electric shock,	damage or fire may result.						
or fire may result.	Start the electrical work after turning off the main power.						
	Otherwise, electric shock, damage, or failure may result.						

Before test runs

≜ Caution							
Do not touch refrigerant piping when operating with bare hands.							
Refrigerant piping when operating becomes cold and hot, depending on the condition of the flowing refrigerant. If touched with bare hands frostbite or burns may result.							
Do not turn the unit off soon after operation stops							
Make sure you wait for more than 5 minutes. If it is turned off too							
soon, water leakage or damage may result.							
Do not operate the unit without air filters.							
• Dirt may get clogged inside and may result in damage.							

1. Included parts (This manual and following parts are included.) Standard grille

3. Selection of air outlets (continued from the previous page)

•Change the settings depending on the number of air outlets and the ceiling height where the main unit is installed. If not changed, failure may result or users may feel discomfort



Note: Do not set up for low ceilings in a hot and humid environment. (Dew drop may result.)

When used in combination with PLA-EA

Configuration will be done on the remote controller. Refer to the section "Function Setting" in the installation manual of the remote controller or the section "Function Setting on the Remote Controller" in the installation manual of the main unit.

When used in combination with PLFY-EM

Set up the switches on controller board of the main unit as shown in the following table.

<Ceiling height and number of air outlets>

Main	unit Type	20 to 80 Type				100 to 125 Type								
		Low ceiling		Standard		High ceiling		Low ceiling		Standard		High ceiling		
			SW21-1	SW21-2	SW21-1	SW21-2	SW21-1	SW21-2	SW21-1	SW21-2	SW21-1	SW21-2	SW21-1	SW21-2
			OFF	ON	OFF	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	OFF
1 directions	SW21-3	OFF	2.5m		2.7m		3.5m		2.7m		3.2m		4.5m	
+ unections	SW21-4	ON												
3 directions	SW21-3	OFF	2.7m		3.0m		3.5m		3.0m		3.6m		4.5m	
5 directions	SW21-4	OFF												
2 directions	SW21-3	ON	3.0m		3.3m		3.5m		3.3m		4.0m		4.5m	
2 directions	SW21-4	OFF												

<Hook is in the raised position> <Hook is in the lowered position>

Note: Switch setting is necessary except for the column highlighted in gray. (Column highlighted in gray is the initial setting).



inside the electrical box.



Continued to the next page

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Main unit



5. Installing corner panels (continued from the previous page)



Removing the signal receiver corner panel

- Remove the signal receiver corner panel according to the following important points.
- 1. Because the lead wires (white, 9 poles) for the signal receiver corner panel are fixed to the back of the grille using a clamp, the lead wires must be removed from the clamp.
- 2. Loosen the screw in the corner on the front of the grille and remove the signal receiver corner panel.
- Note: If the i-see Sensor install position is changed from default position, change the function settings by referring to main unit installation manual.





6. Setting up the lowering distance of intake grille

- •You can set up 8 different stages of lowering distance for the intake grille according to the set up location if desired.
- Note: As a initial setting, the intake grille will automatically stop at 1.6 m from the ceiling surface. The distance is a rough indication, check by actually lowering it.
- •The lowering distance can be set using PAR-3xMAA ("x" represents 2 or later.) or DIP switches of SW2 on the controller board of the Automatic Filter Elevation Panel. The latest setting using either one of them will be adopted.

Therefore, there may be a gap between the actual lowering distance and the display of PAR-3xMAA ("x" represents 2 or later.) or DIP switches of SW2 on the controller board of the Automatic Filter Elevation Panel.

1) Setting using PAR-3xMAA ("x" represents 2 or later.)

- 1. To display Automatic Filter Elevation Panel, select "Auto descending panel" from the maintenance menu with the F1 and the F2 button, and press the S button.
- 2. To display "Descending adjustment", select "Descending adjustment" with the F1 and the F2 button, and press the \bigcirc button.
- 3. To display "Height", specify "Ref. address" and "Unit No." of the main unit with the F2 and the F3 button, and press the ⊘ button. (Specify the" Ref. No" and "Unit. No" with F1 button.)
- 4. Select "Height" with the F1 button and set the height with the F2 and the F3 button to press the⊘button.

Note: Refer to "Lowering distance set up table" below.

Note: The images to the right are the display examples of PAR-3xMAA when connected to PLA-EA. When PAR-3xMAA is connected to PLFY-EM, "Ref. address" will be displayed as "M-NET address". Also, "Unit No." will not be displayed.

2) The setting on the controller board of Automatic Filter Elevation Panel.

- 1. Loose the 2 screws and slide the electrical box cover to open.
- 2. Set up the DIP switches of SW2 on the controller board of Automatic Filter Elevation Panel as followed. Note: To change the setting, make sure the symbol of the DIP switch is SW2.
- 3. Reinstall the electrical parts cover of the grille following reverse procedure 1.

Lowering distance set up table



- Atter electronic power is supplied You can set the direction of the intake grille such as grids when installing multiple main units as desired.
- 1. Take off the joint from the joint holder.

A Caution Make sure that the joints are locked securely and they do not come off from all of 4 holes.



3. The intake grille will be stored when you press "UP" button on the remote controller or the signal receiver corner panel.

2) Temporary fixation of the intake grille before electronic power is supplied 1. Hold the 4 strings together so that they do not get tangled.

- Remove the temporary fixing hooks and the safety strap, which are screwed onto the grille shown in the right figure.
- 3. Using the screws which have fixed the temporary fixing hooks, attach the temporary fixing hooks onto 2 parts of the intake grille shown in the right figure.
- 4. Hook the snap hook of one end of the safety strap in the hole on the grille support and hook that of the other end in the hole on the grille.

A Caution	Make sure to hang the safety strap of the intake grille while temporarily installing the grille.
	• Otherwise, the intake grille may drop off and cause an injury or a failure.

5. Set the intake grille on the grille horizontally.

Install the intake grille as to hang the temporary fixing hook to the location as shown on the right figure.

If the temporary fixing hook touches the limit switch, the damage may result in the limit switch.

Notes:

Auto descending panel

Descending operation Descending adjustment

Cursor A

F1 F2

(I) (I) 🗸

Auto descending panel

Descending adjustment

Identify unit Check button

Input display:
Cur. —Address + Check

Descending adjustment

Descending adjust

Ref. address
 Unit No.
 1/2/3/4

F1 F2 F3 F4

▼Cur. – Height +

F2 F3

(3)

F1

 (\mathfrak{Z})

Ref. addr Unit No.

(🔳)

F4

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F4

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RGB

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1. Make sure the safety strap does not get caught.

While the temporary fixation, the intake grille will be fixed slightly slanted to the grille surface.

6. Attach the tag (3) on the intake grille to inform that the intake grille is fixed temporarily.

7. Take the tag ③ off after electronic power is supplied, and take the intake grille following the reverse procedure of the previous procedure, and attach the temporary fixing hook and the safety strap back to their original position. (They will be reused.)



2 Grille support



8. Confirmation

•Confirm that there is no gap between the main unit and the grille or between the grille and the ceiling surface. Note: If there is a gap, dew formation or dew drop may result.

•Confirm that lead wires are properly connected.

Note: If any are improperly connected, problems may result; vane does not move, dew drop may occur or the intake grille does not elevation. •If the model has a wireless remote controller compatible (for operating the main unit), check whether the pair numbers of the remote controller and the main unit match.

•Confirm that the air conditioner operates correctly using the wired/wireless remote controller. For the operation method, refer to the operation manuals for the Automatic Filter Elevation Panel and remote controller.

•Make sure if the lowering distance of intake grille is given as requested by the user and if the elevation movement is smooth. •If the lowering distance of intake grille is changed, check the movement.

•For optional part Automatic Filter Elevation Panel with i-see Sensor corner panel, check the rotating movement of the i-see Sensor corner panel. Note: If the i-see Sensor does not rotate, review the procedure in "installation of i-see Sensor corner panel" in section 5.

After verifying all the items above, hand all the documents including this manual and the manuals for the main unit and separately sold parts to the user. Be sure to explain the descriptions of cleaning the filters and how to use the intake grille elevation function (remote controller operation) in the operation manual to the user.



