

MITSUBISHI ELECTRIC

Air Conditioning For Building Application

Long-life Filter

PAC-KE85·86·88·89LAF

High-Efficiency Filter

PAC-KE31·33·34·35·41·43·44·45AF

Installation Manual

This installation manual contains only the description of how to install the Filter PAC-KE·(L)AF. For information about how to wire and how to install air conditioning units, see the installation manual for them.

For your safety, first be sure to read " (Safety Precautions) " described below thoroughly and then install the Filter PAC-KE·(L)AF correctly.

Safety Precautions

- The following two symbols are used to denote dangers that may be caused by incorrect use and their degree:

 WARNING	This symbol denotes what could lead to serious injury or death if you misuse the PAC-KE·(L)AF.
 CAUTION	This symbol denotes what could lead to a personal injury or damage to your property if you misuse the PAC-KE·(L)AF.

- After reading this installation manual, keep it in a place where the final user can see it anytime he or she wants to it. When someone moves, repairs or uses the PAC-KE·(L)AF, make sure that this manual is forwarded to the final user.

WARNING

Install the unit according to this Installation Manual.
If the unit is installed improperly, water leakage, electric shock or fire may result.

Never modify the unit and always have repairs performed by an Authorized Mitsubishi Representative.
Improper repair could result in problems such as water leakage, electric shock or fire.

CAUTION

PRECAUTIONS BEFORE INSTALLATION

Never use the unit in special environments.
Special environments with high concentrations of oil, steam or sulfuric gases will reduce the performance of the air condition and cause its parts to deteriorate.

Never use for special applications such as storing food, plants, precision equipment or art.
The quality of these items may deteriorate.

PRECAUTIONS BEFORE REMOVE AND ELECTRIC WORK

Dispose of packing materials properly.

PRECAUTIONS BEFORE TEST RUN

Never operate the air conditioner with the air filter removed.
Particles will enter into the air conditioner and cause damage.

1 Model names and applicable models

Model name	Filter Quantity (spec)	Applicable Filter Box types	Applicable types
PAC-KE31AF	1 (High-Efficiency Filter NBS65%)	PAC-KE63TB-F	PEFY-P40-P50-P63VMH, PEFY-P15-P18-P24NMHU-E
PAC-KE33AF	2 (High-Efficiency Filter NBS65%)	PAC-KE80TB-F	PEFY-P71-P80VMH, PEFY-P27-P30NMHU-E, PEFY-P30NMHU-E-F
PAC-KE34AF	2 (High-Efficiency Filter NBS65%)	PAC-KE140TB-F	PEFY-P100-P125-P140VMH, PEFY-P36-P48-P54NMHU-E, PEFY-P54NMHU-E-F
PAC-KE35AF	2 (High-Efficiency Filter NBS65%)	PAC-KE250TB-F	PEFY-P200-P250VMH, PEFY-P72-P96NMHU-E, PEFY-P72-P96NMHU-E-F
PAC-KE41AF	1 (High-Efficiency Filter NBS90%)	PAC-KE63TB-F	PEFY-P40 P50 P63VMH, PEFY-P15 P18 P24NMHU-E
PAC-KE43AF	2 (High-Efficiency Filter NBS90%)	PAC-KE80TB-F	PEFY-P71-P80VMH, PEFY-P27-P30NMHU-E, PEFY-P30NMHU-E-F
PAC-KE44AF	2 (High-Efficiency Filter NBS90%)	PAC-KE140TB-F	PEFY-P100-P125-P140VMH, PEFY-P36-P48-P54NMHU-E, PEFY-P54NMHU-E-F
PAC-KE45AF	2 (High-Efficiency Filter NBS90%)	PAC-KE250TB-F	PEFY-P200-P250VMH, PEFY-P72-P96NMHU-E, PEFY-P72-P96NMHU-E-F
PAC-KE85LAF	2 (Long-life Filter)	PAC-KE250TB-F	PEFY-P200-P250VMH, PEFY-P72-P96NMHU-E, PEFY-P72-P96NMHU-E-F
PAC-KE86LAF	2 (Long-life Filter)	PAC-KE63TB-F	PEFY-P40-P50-P63VMH, PEFY-P15-P18-P24NMHU-E
PAC-KE88LAF	3 (Long-life Filter)	PAC-KE80TB-F	PEFY-P71-P80VMH, PEFY-P27-P30NMHU-E, PEFY-P30NMHU-E-F
PAC-KE89LAF	4 (Long-life Filter)	PAC-KE140TB-F	PEFY-P100-P125-P140VMH, PEFY-P36-P48-P54NMHU-E, PEFY-P54NMHU-E-F

If the filter is to be used, the filter box (sold separately) for the respective type must be used.

2 Mounting procedure

● Procedure for mounting the filter from the side

- (1) Remove the two screws for the cover on the filter box. (Fig. 1)
- (2) When using filter box PAC-KE63·80·140TB-F (using filter : high-efficiency filter), change the position (up/down) of the retainer plate. (Fig. 2)
(Not necessary if using the long-life filter or filter box PAC-KE250TB-F.)

Mount by inserting the rear side into the side panel of the filter box and securing in the front with two screws.

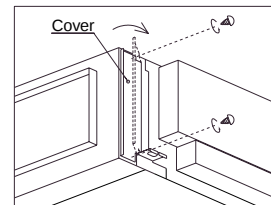
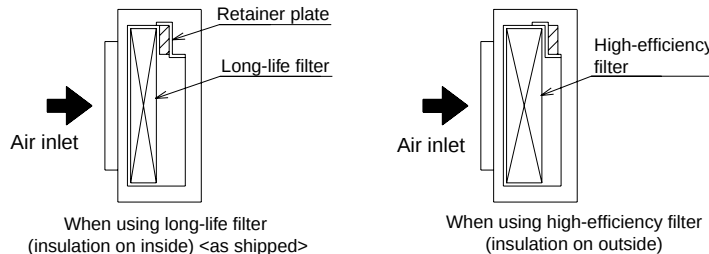


Fig.1

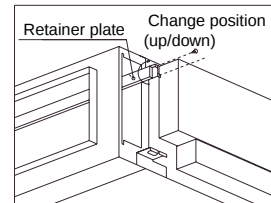


Fig.2

- (3) Insert the filter through the opening in the filter box. After the filter has been inserted, close the cover (removed in step(1)) and tighten the screws. (Fig. 3)

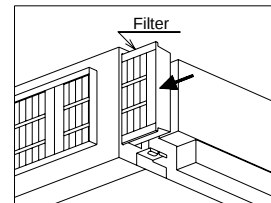
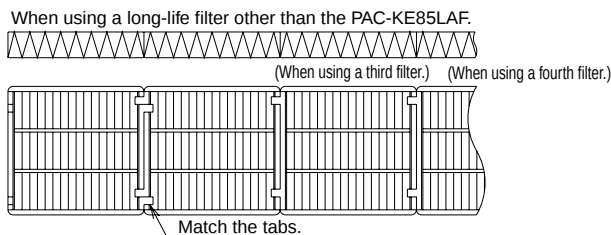


Fig.3

The PAC-KE85LAF and high-efficiency filters are joined by hook-and-loop fastening tape. Be sure to check the position and proper adhesion of this tape when inserting the filter.

⚠ CAUTION

Never place your hand inside the filter box during maintenance. If the filter tabs become caught when the filter is removed for maintenance, use a long stick or similar item to remove the remaining filter.

● Procedure for mounting the filter from the bottom

- It is necessary if using filter box PAC-KE63·80·140TB-F (using filter : high-efficiency filter), change the position (up/down) of the retainer plate.
- Refer to [● Procedure for mounting the filter from the side (1), (2)].

- (1) Remove the bottom plate screws (refer to drawing below) on the filter box. (Fig. 4)

Number of screws used	A Direction	B Direction
PAC-KE35-45-85(L)AF	5	4
PAC-KE31-41-86(L)AF	4	2
PAC-KE33-34-43-44-88-89(L)AF	4	3

- (2) Insert the filter from the bottom. (Fig. 5)
- (3) Push the filter up attach to rail. (Fig. 6)
- (4) Complete by replacing the bottom plate removed in Step (1).

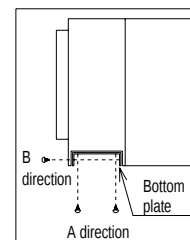


Fig.4

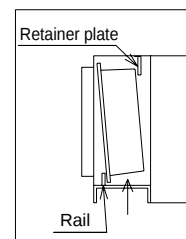


Fig.5

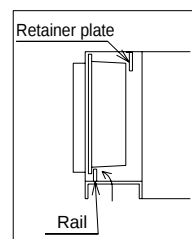


Fig.6

3 If the filter indicator is to appear on the remote control unit

(Always turn off primary power supply before performing this procedure.)
Change SW1-2 on the address circuit board to ON.
(Please consult the customer.)

