

Fitting External Air Intake Ducting Flanges



Caution

- To prevent injury, do not touch the metal edges of the product with unprotected hands.
- Fit as described below.

1. Fitting

(1) Applicable Types

These optional components may be assembled in the main units and optional components in the table at right. Check the applicable type to prevent incorrect use.

*1 When optional components are fitted, the height of the main units is raised 110 mm for multifunctional casements, and 220 mm for spacers.

Type	Applicable type (main unit)	Optional components*1	
		Multifunctional casements	Spacers
PAC-KH110F	PLFY-P20 to 40LMD-D	PAC-KH71TB	PAC-KH81TB
	PLFY-P50 to 63LMD-D	PAC-KH73TB	PAC-KH83TB
	PLFY-P80 to 100LMD-D	PAC-KH74TB	PAC-KH84TB

(2) Miscellaneous

- These optional components may be connected to 150 mm diameter circular ducting (circular ducting and circular ducting flanges procured on-site).

2. Components

These optional components include the components shown at right. Check that these components are present before fitting.

External air intake ducting	Ducting flange	PTT screws (4×10)
1	1	10 (two spares)

3. Fitting Details

◆ Fitting to the main unit

- (1) Cut the knockout hole (45×240) on the side opposite to the piping with nippers.
- (2) Cut out and remove the thermal insulation on the inside around the knockout hole (see Fig.1).
Ensure that the drain pan is not damaged while cutting

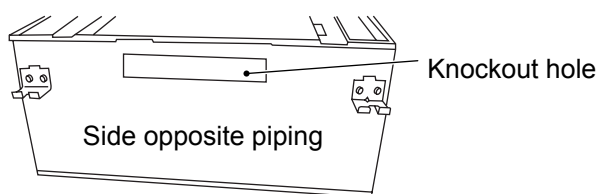


Fig.1

◆ Fitting to multifunctional casements and spacers

- (1) First check that the multifunctional casement or spacer is fitted firmly to the main unit.
Check that **the multifunctional casement or spacer external air intake is on the side of the main unit opposite the piping** (see Fig.2).

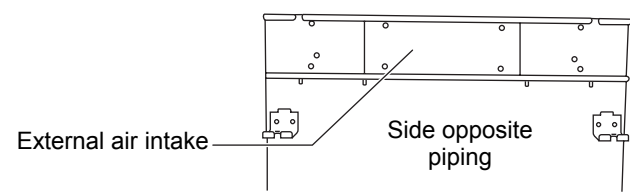


Fig.2

- (2) Remove the multifunctional casement or spacer external air intake (four screws).
Subsequent fitting of the ducting flange and external air intake ducting is the same as for fitting to the main unit.

- (3) Fit the ducting flange using the four supplied 4×10 PTT screws (see Fig.3)
- (4) Connect the external air intake ducting to the flange firmly using the four supplied 4x10 PTT screws (see Fig.4).
Air leaks may occur if the ducting is not fitted correctly.

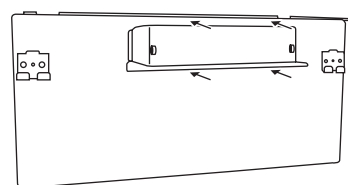


Fig.3

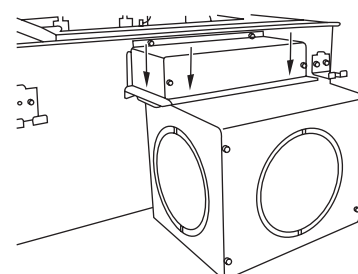


Fig.4.

- (5) Open the external air inflow hole (150mm diameter) connecting the external air ducting (see Fig.5).
Set the external-internal air mixture to the range of use conditions as shown in the capacity diagram.

◆ Adjusting air intake volume

Cut the joiners at left and right of the external air inflow hole with a pair of cutters and rotate the cover to open (see Fig.5).

◆ Fully open

As with intake adjustment, cut the joiners at left and right and rotate the cover repeatedly to remove (see Fig.5).

- (6) Connect the ducting procured on-site. **Connect the ducting while ensuring that excess loads are not applied to the external air intake ducting on its vertical or horizontal axes.** Application of excess loads to the ducting may result in its deformation and air leaks.

External air inflow adjustment cover

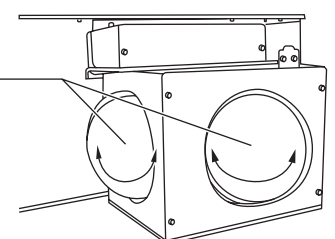


Fig. 5

External Air Intake Cautions

- **Pass external air through an air filter before use.** Dust and contamination may clog the product, resulting in malfunctions.
- **Check again that the external-internal air mixture is as per the range of use conditions shown in the capacity diagram.**
- **Under some circumstances, external air intake volume and air temperature may affect indoor temperature detection, preventing detection of the actual indoor temperature.**
- **In such cases, change to the sensor in the remote controller, or the optional room thermostat (PAC-SE40TS). See the main unit installation manual for details of these changes**