

3 Installation Space Requirements

Make sure there is sufficient space around the unit for maintenance work, and the minimum space for air inlet and air outlet is reserved (see below to select a feasible method).

Ensure there is enough space for maintenance. The units in the same system must be placed at the same height.

Outdoor units must be spaced so that sufficient air may flow through each unit. Sufficient airflow across heat exchangers is essential for outdoor units to function properly.

For single unit installation

Figure 2-3.1: Single unit installation (unit: mm)

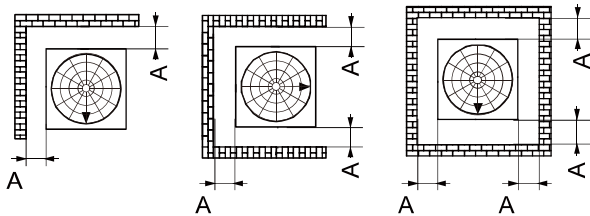
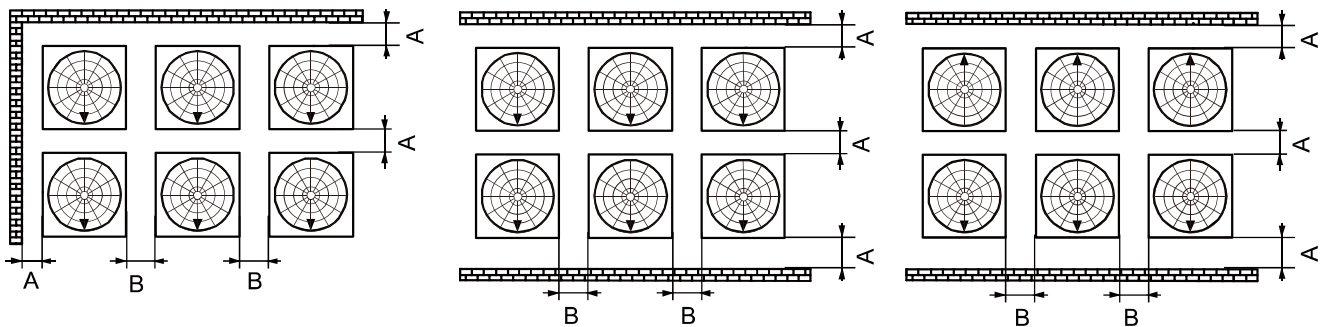


Table 2-3.1: significance of symbol

symbol	significance	Value
arrow ▼	the front of the unit	-
A	distance	$A \geq 1000\text{mm}$
B	distance	$500\text{mm} \geq B \geq 100\text{mm}$

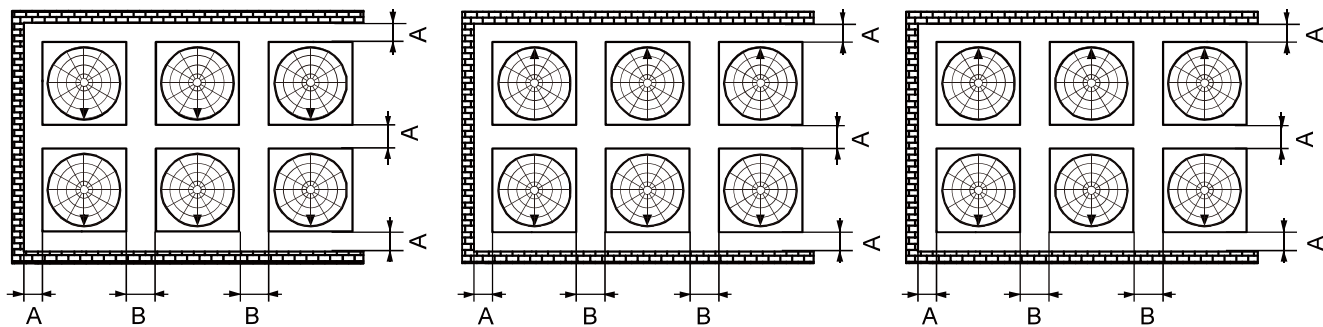
Installation with walls in two directions

Figure 2-3.2: installation with walls in two directions (unit: mm)



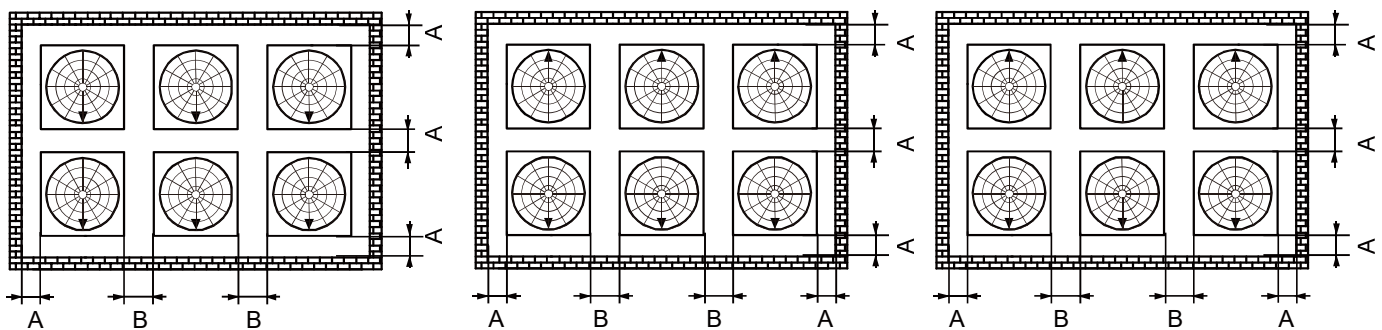
Installation with walls in three directions

Figure 2-3.3: installation with walls in three directions (unit: mm)



Installation with walls in four directions

Figure 2-3.4: installation with walls in four directions (unit: mm)



The dimensions in the above figures (Figure 2-3.1 to Figure 2-3.4) provide sufficient space for operation and maintenance under normal operating conditions (refrigeration mode at an outdoor temperature of 35°C).

If the outdoor temperature is higher and ventilation short circuiting may occur, choose the most suitable dimensions by calculating the return air flow.

Keep the inlet and outlet of each ODU open and avoid interference.

If there is an obstacle in the space over the unit, the four sides of the unit should be open.

In the situation depicted in following Figure 2-3.5

- If there are no walls in front of or behind the unit, it is necessary to reserve a space of 1000mm on both sides.
- If the front wall is higher than 1500mm, a space of at least $(1000 + (h_2)/2)$ mm is required at the front
- If the rear wall is higher than 500mm, a space of at least $(1000 + (h_1)/2)$ mm is required at the back.
- When the space above the unit is less than 1500mm, an air ducting device shall be installed to prevent ventilation from short circuiting.
- When the space over the unit is greater than 1500mm, an air ducting device shall be installed if the air circulation is not smooth at the top of the unit.

Figure 2-3.5: Top of unit below top of adjacent wall unit (mm)

