

4. Installation Instructions

Outdoor Unit

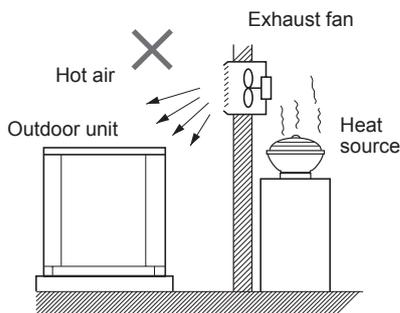
4-1. Selecting the Installation Site for Outdoor Unit

AVOID:

- heat sources, exhaust fans, etc.
- damp, humid or uneven locations
- indoors (no-ventilation location)

DO:

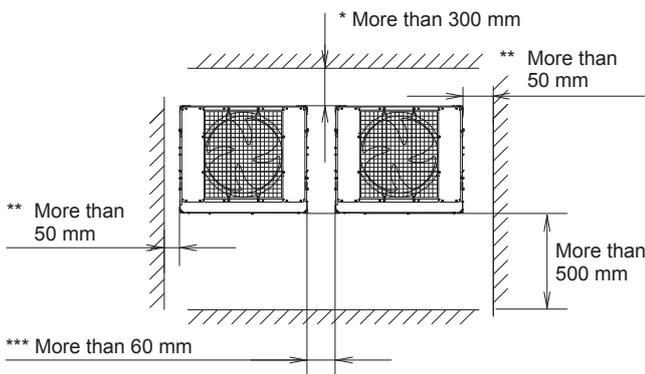
- choose a place as cool as possible.
- choose a place that is well ventilated.
- allow enough room around the unit for air intake/exhaust and possible maintenance.



Installation Space

Install the outdoor unit where there is enough space for ventilation. Otherwise the unit may not operate properly. The figure shows the minimum space requirement around the outdoor units when 3 sides are open and only 1 side is shuttered, with open space above the unit. The mounting base should be concrete or a similar material that allows for adequate drainage. Make provisions for anchor bolts, platform height, and other site-specific installation requirements.

Example of installation of 2 units
(when 3 sides are open and only 1 side is shuttered)



- * Make a walk-in space behind the unit to erase maintenance and servicing.
- ** When setting the anchor bolt to position "B" or "C", make the space between the unit and the wall more than 250 mm for installation operation.
- *** When setting the anchor bolt to position "B" or "C", make the space between the outdoor units more than 180 mm for installation operation.



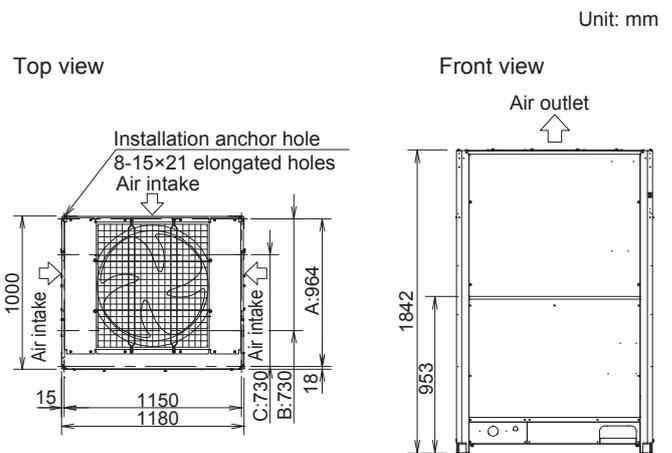
CAUTION

- Leave space open above the unit.
- Construct louvers or other openings in the wall, if necessary, to ensure adequate ventilation.

NOTE

- Do not do any wiring or tubing within 30 cm of the front panel, because this space is needed as a servicing space for the compressor.
- Ensure a base height of 100 mm or more to ensure that drainage water does not accumulate and freeze around the bottom of the unit.
- If installing a drain pan, install the drain pan prior to installing the outdoor unit.
- * Make sure there is at least 150 mm between the outdoor unit and the ground.

Also, the direction of the tubing and electrical wiring should be from the front of the outdoor unit.



According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

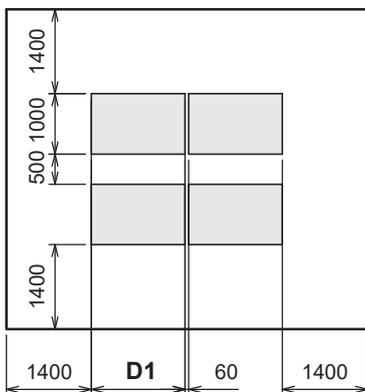
- A: (Installation hole pitch) For removing the tube forward
- B: (Installation hole pitch) For removing the tube downward
- C: (Installation hole pitch)

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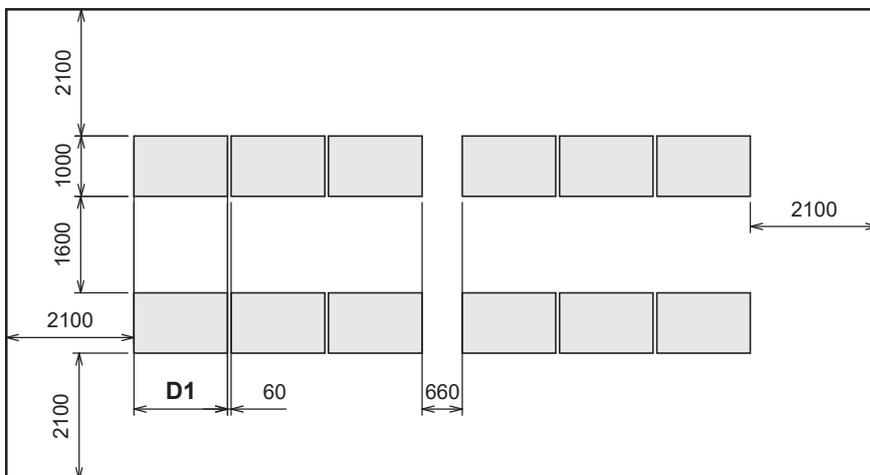
2 rows

Unit: mm

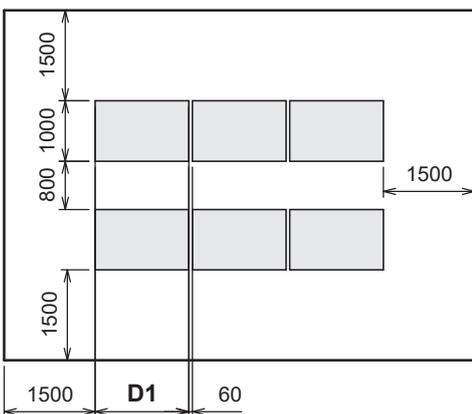
2-continuous installation × 2 rows



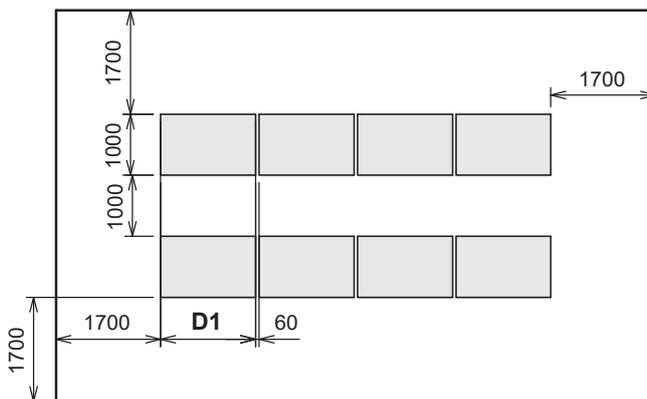
3-continuous installation × 2 lines × 2 rows



3-continuous installation × 2 rows



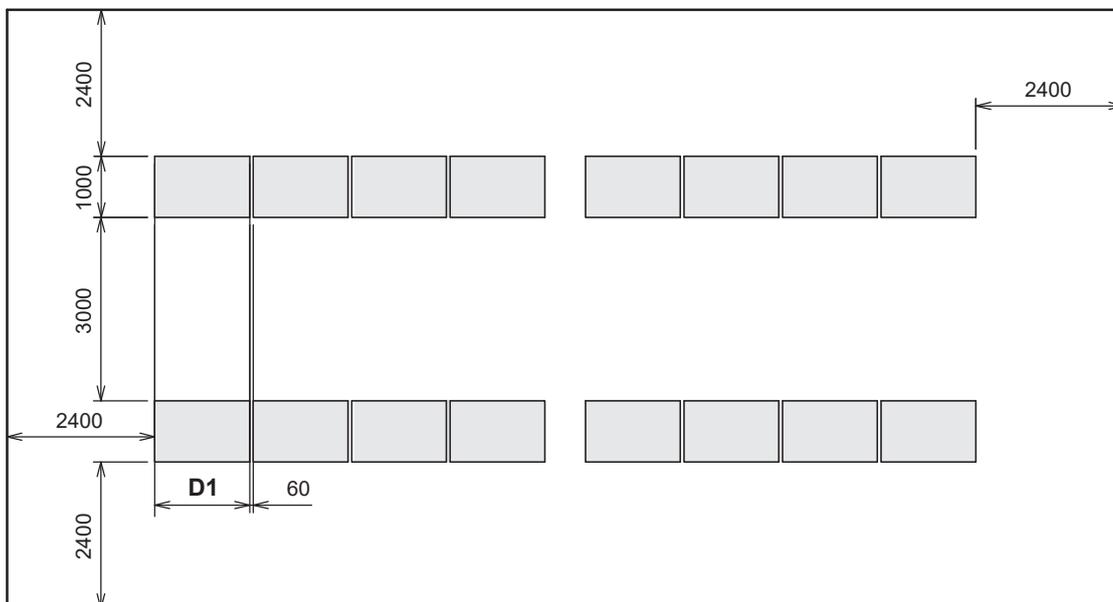
4-continuous installation × 2 rows



2

D1	8, 10HP	770 mm
	12, 14, 16HP	1180 mm
	18, 20HP	1540 mm

4-continuous installation × 2 lines × 2 rows

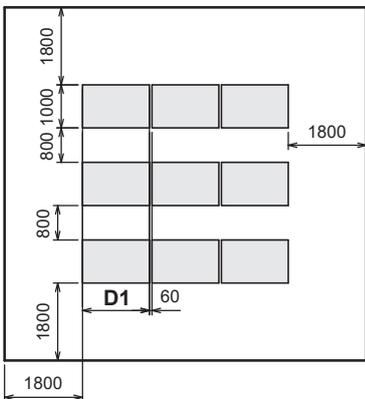


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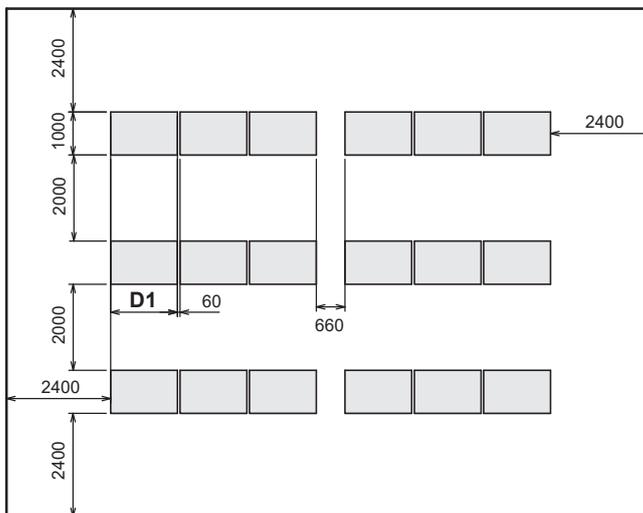
3 rows

Unit: mm

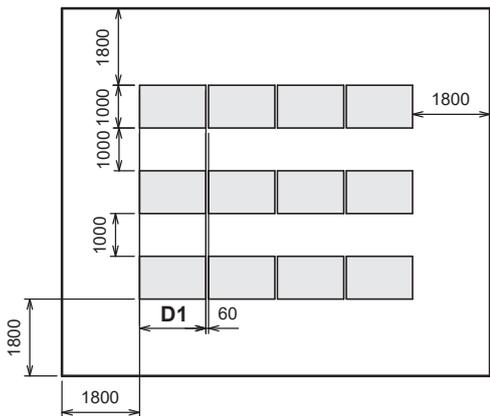
3-continuous installation × 3 rows



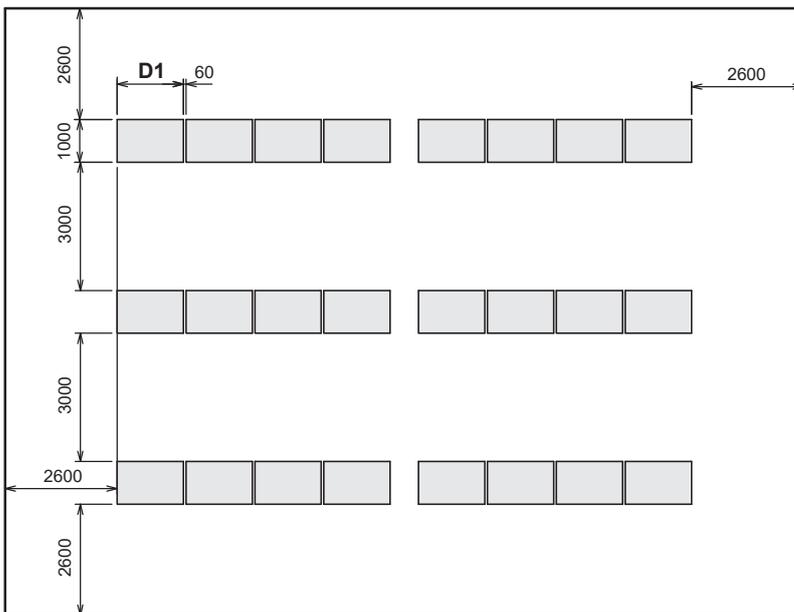
3-continuous installation × 2 lines × 3 rows



4-continuous installation × 3 rows



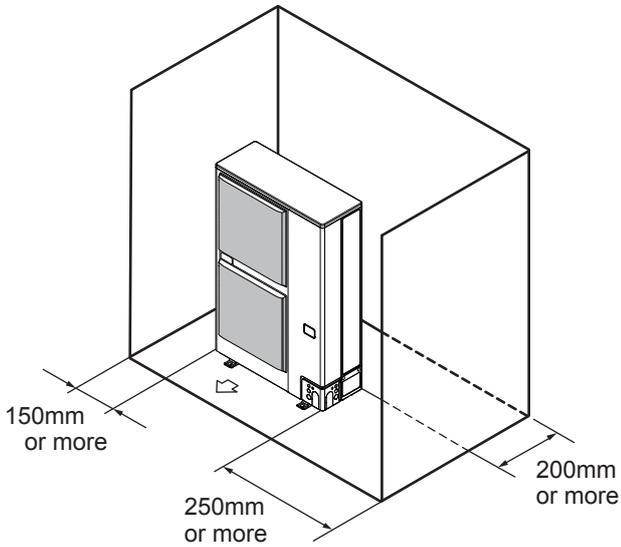
4-continuous installation × 2 lines × 3 rows



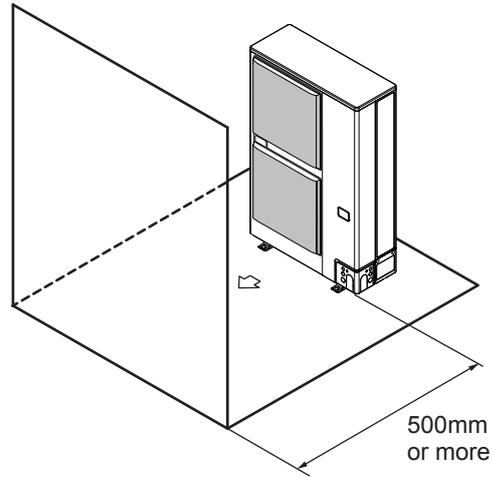
D1	8, 10HP	770 mm
	12, 14, 16HP	1180 mm
	18, 20HP	1540 mm

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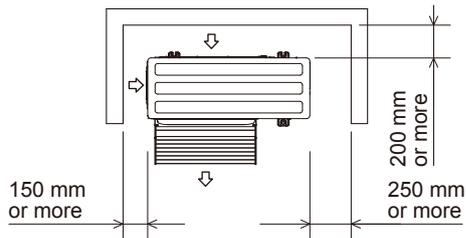
- (2) Obstacle on the left side, right side and rear side (Front side and above the unit are opened.)



- (3) Obstacle on the front side (Rear side, left side, right side and above the unit are opened.)

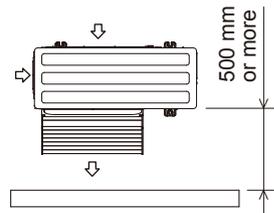


When installing air-discharge chamber



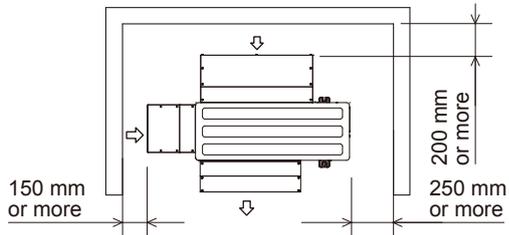
The distance between the outdoor unit and obstacles as shown in the above installation example must be measured from the outside surface of the outdoor unit and then the open space should be provided.

When installing air-discharge chamber



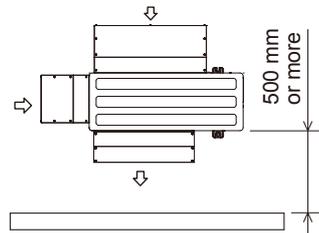
The distance between the outdoor unit and an obstacle as shown in the above installation example (equal to sections (4) to (16), excepting (5), (6), (8) and (11)) must also be measured from the outside surface of the outdoor unit and then the open space should be provided.

When installing snow-proof vents



The distance between the outdoor unit and obstacles as shown in the above installation example must be measured from the additional external surface of the snow-proof duct facing the air intake side and be measured from the outside surface facing the air discharge side of the outdoor unit and then the open space should be provided.

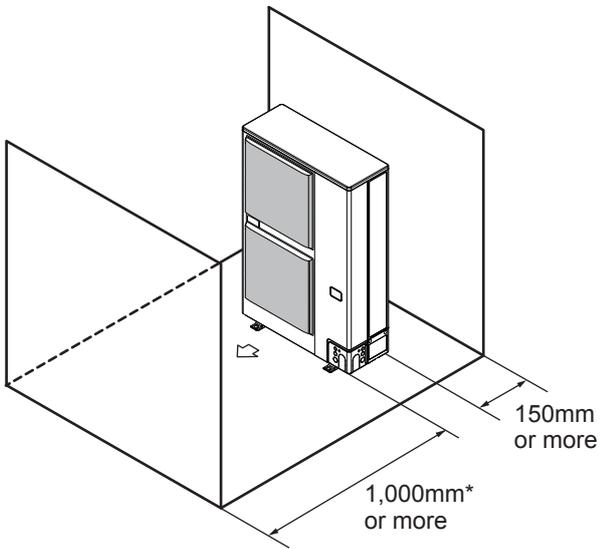
When installing snow-proof vents



The distance between the outdoor unit and an obstacle as shown in the above installation example (equal to the section (4) to (16)) must also be measured from the external surface of the snow-proof duct facing the air intake side and be measured from the outside surface facing the air discharge side of the outdoor unit and then the open space should be provided.

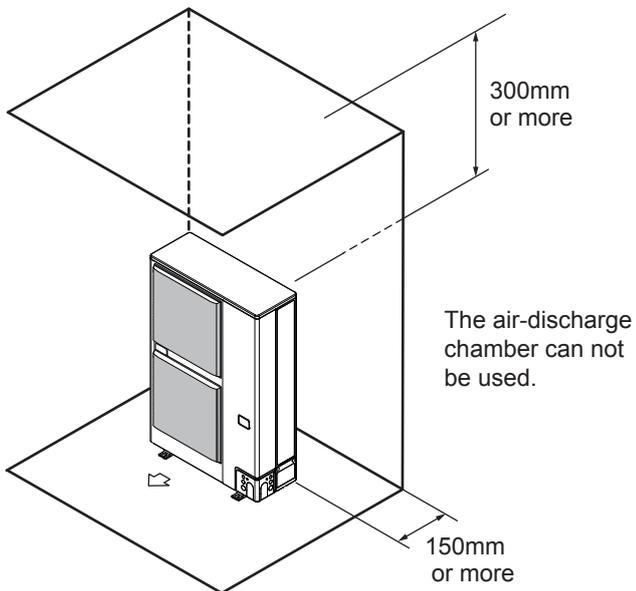
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- (4) Obstacle on the front side and rear side
(Left side, right side and above the unit are opened.)



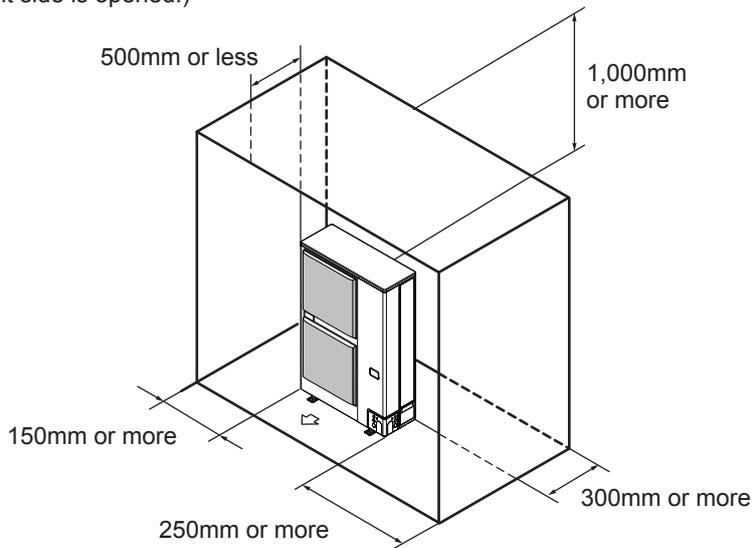
*When using the air-discharge chamber
: 500mm or more

- (5) Obstacle on the rear side and top side
(Front side, left side and right side are opened.)



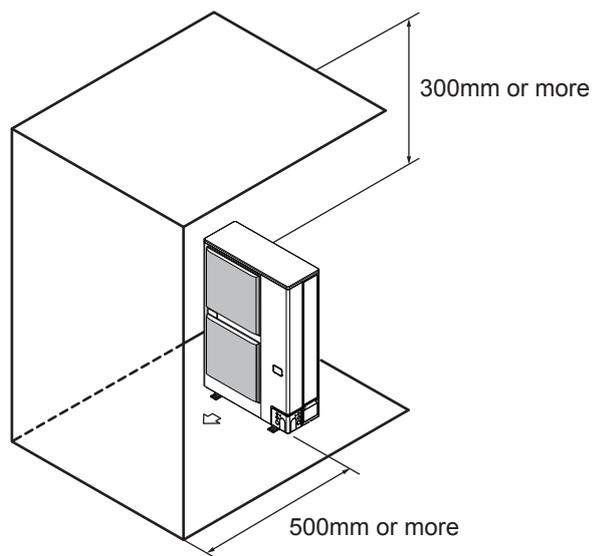
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- (6) Obstacle on the rear side, left side, right side and top side
(Front side is opened.)

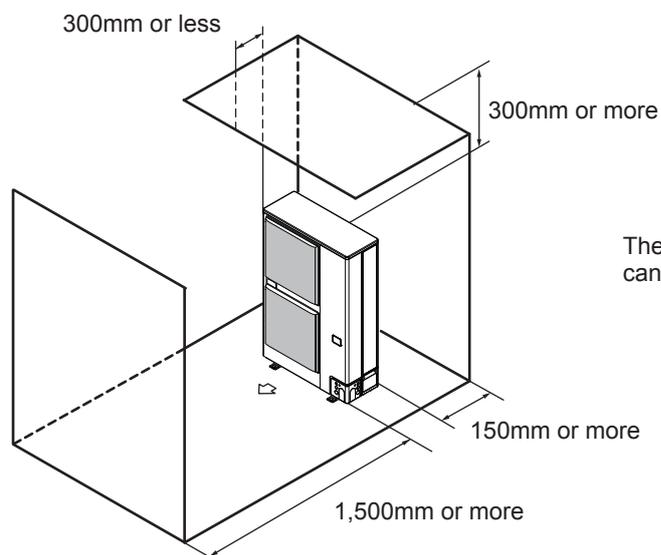


The air-discharge chamber can not be used.

- (7) Obstacle on the front side and top side
(Rear side, left side and right side are opened.)



- (8) Obstacle on the rear side, front side and top side
(Left side and right side are opened.)



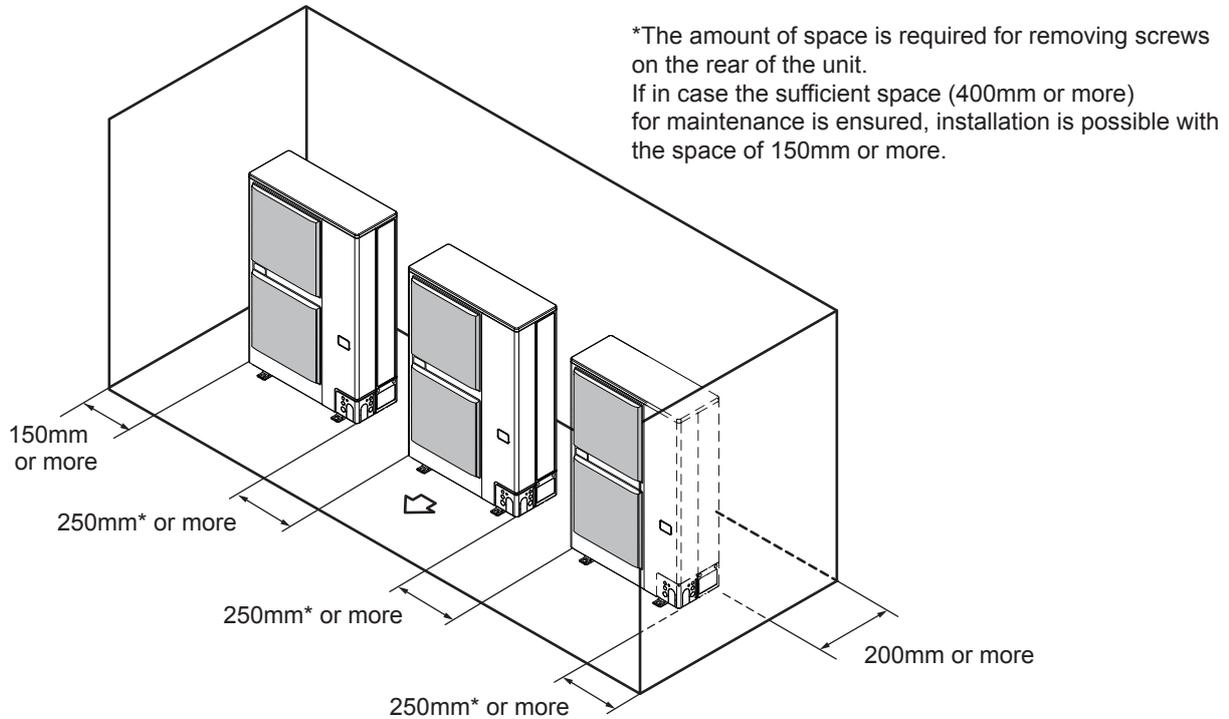
The air-discharge chamber can not be used.

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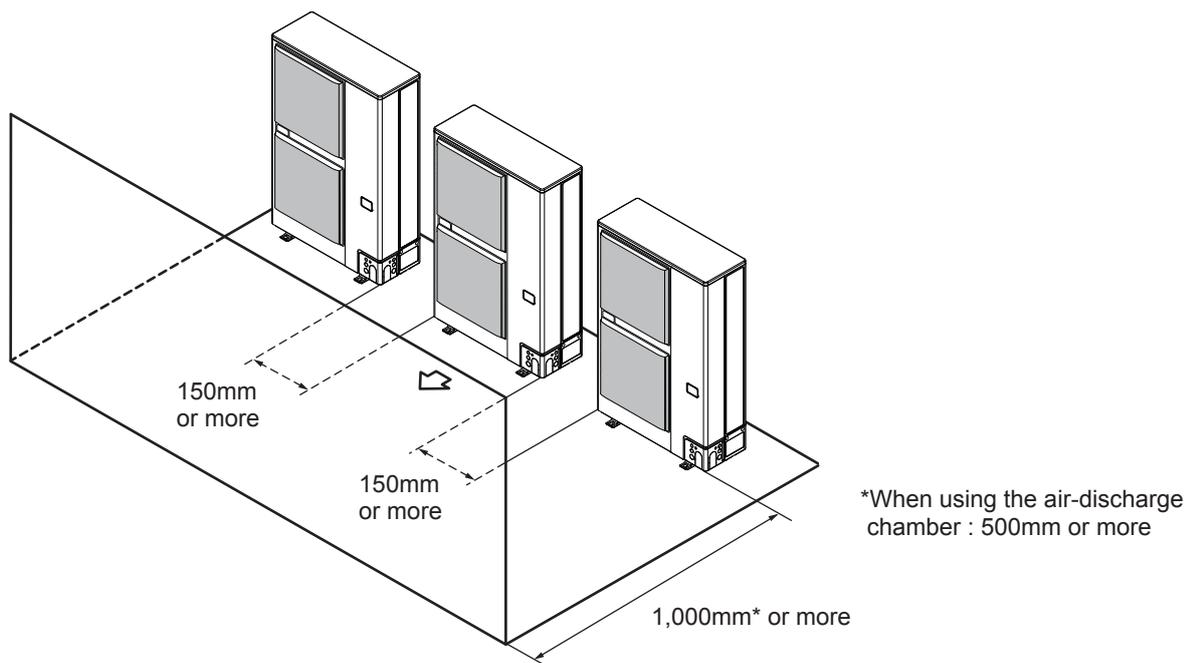
■ Multiple-Unit Installation

(9) Obstacle on the rear side, left side and right side
(Front side and above the unit are opened.)

- It is recommended that the maintenance space of 500mm or more every 3 units is provided.



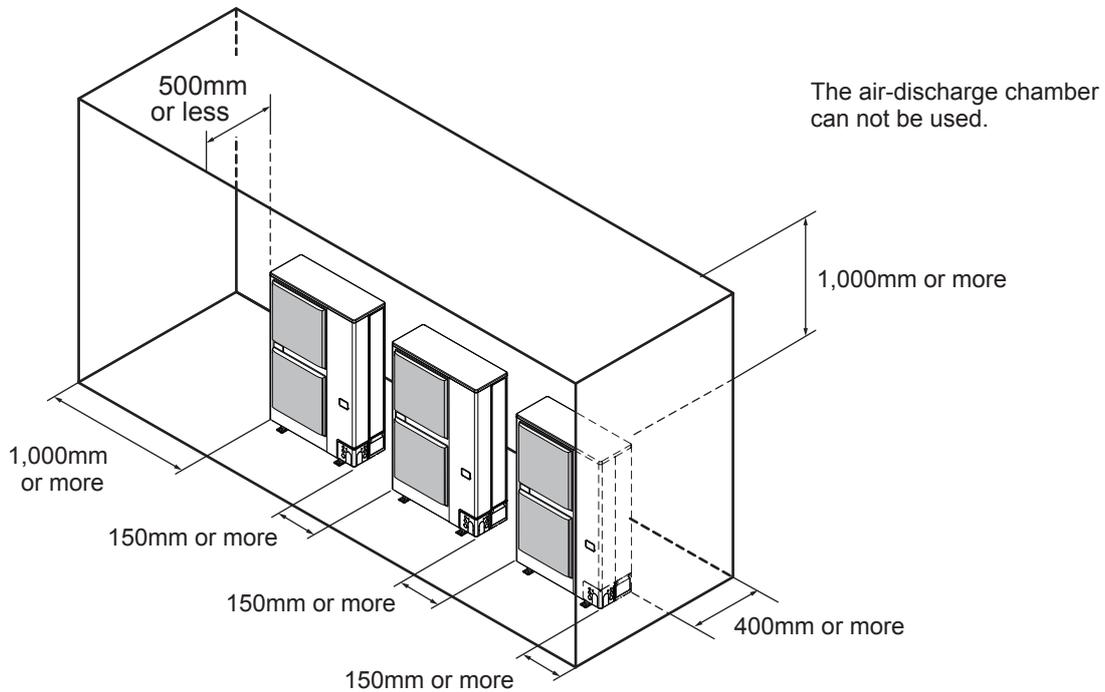
(10) Obstacle on the front side
(Rear side, left side, right side and above the unit are opened.)



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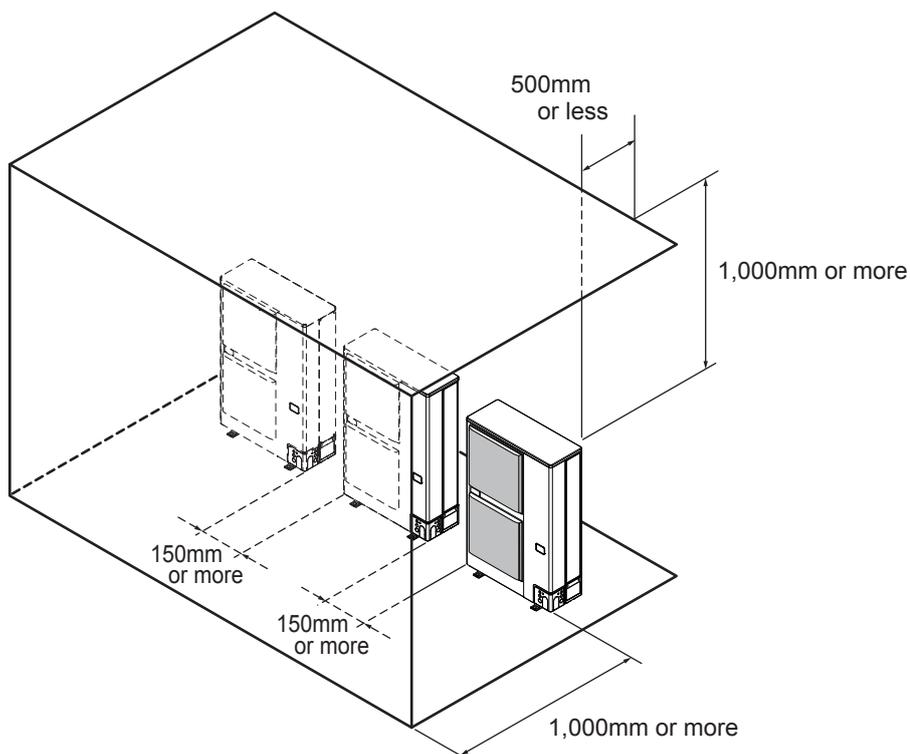
(11) Obstacle on the rear side, left side, right side and top side
(Front side is opened.)

- In the case of continuous installation of over three units, provide 1,500mm or more every three units for the airflow.



(12) Obstacle on the front side and top side
(Rear side, left side and right side are opened.)

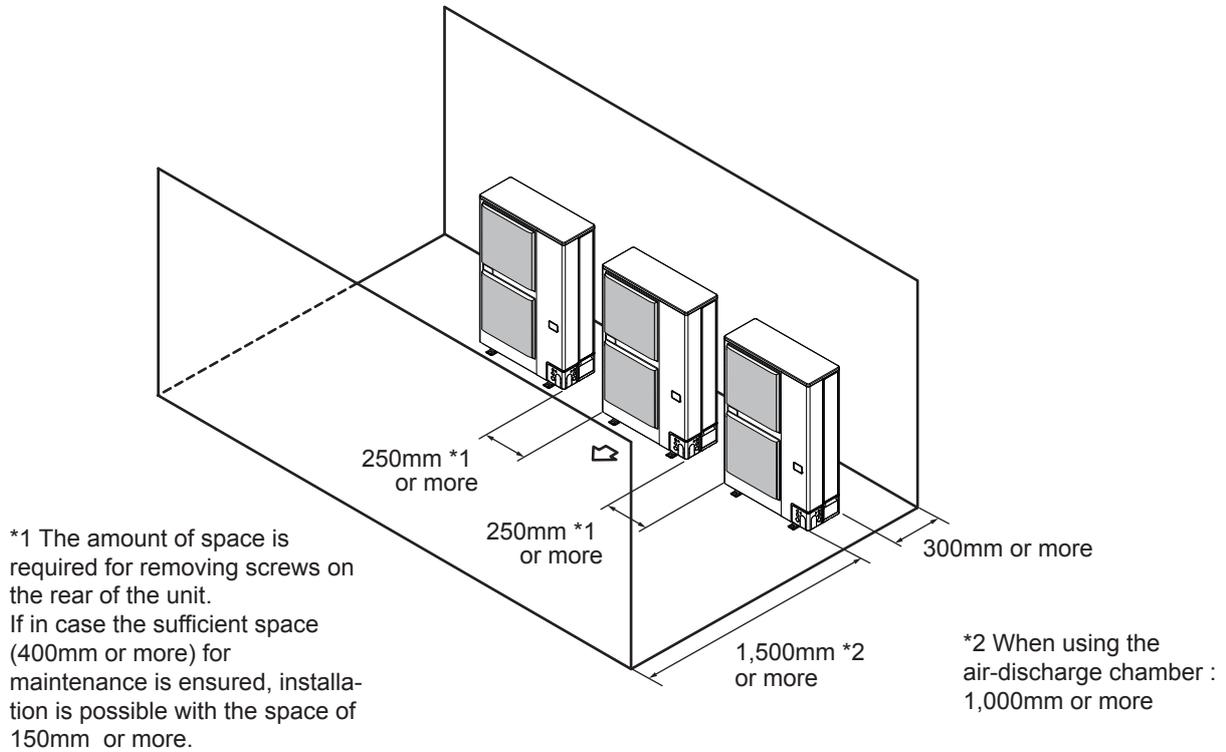
- It is recommended that the maintenance space of 500mm or more every 3 units is provided.



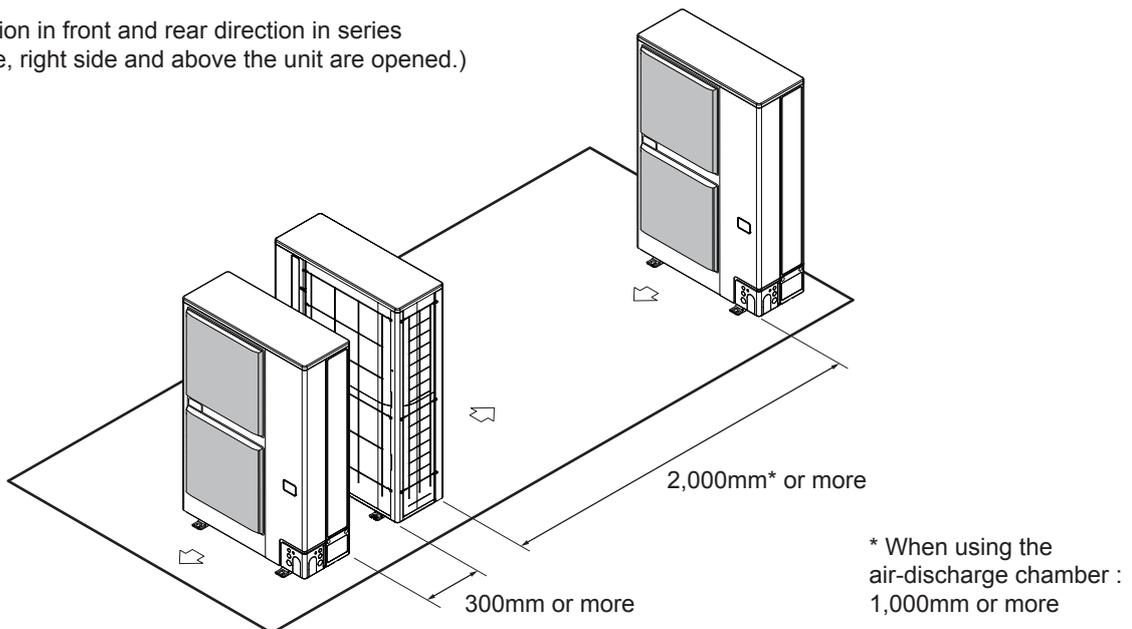
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(13) Obstacle on the rear side and front side
(Left and right sides and above the unit are opened.)

- It is recommended that the maintenance space of 500mm or more every 3 units is provided.
- Either of the obstacles must be no taller than 2m.

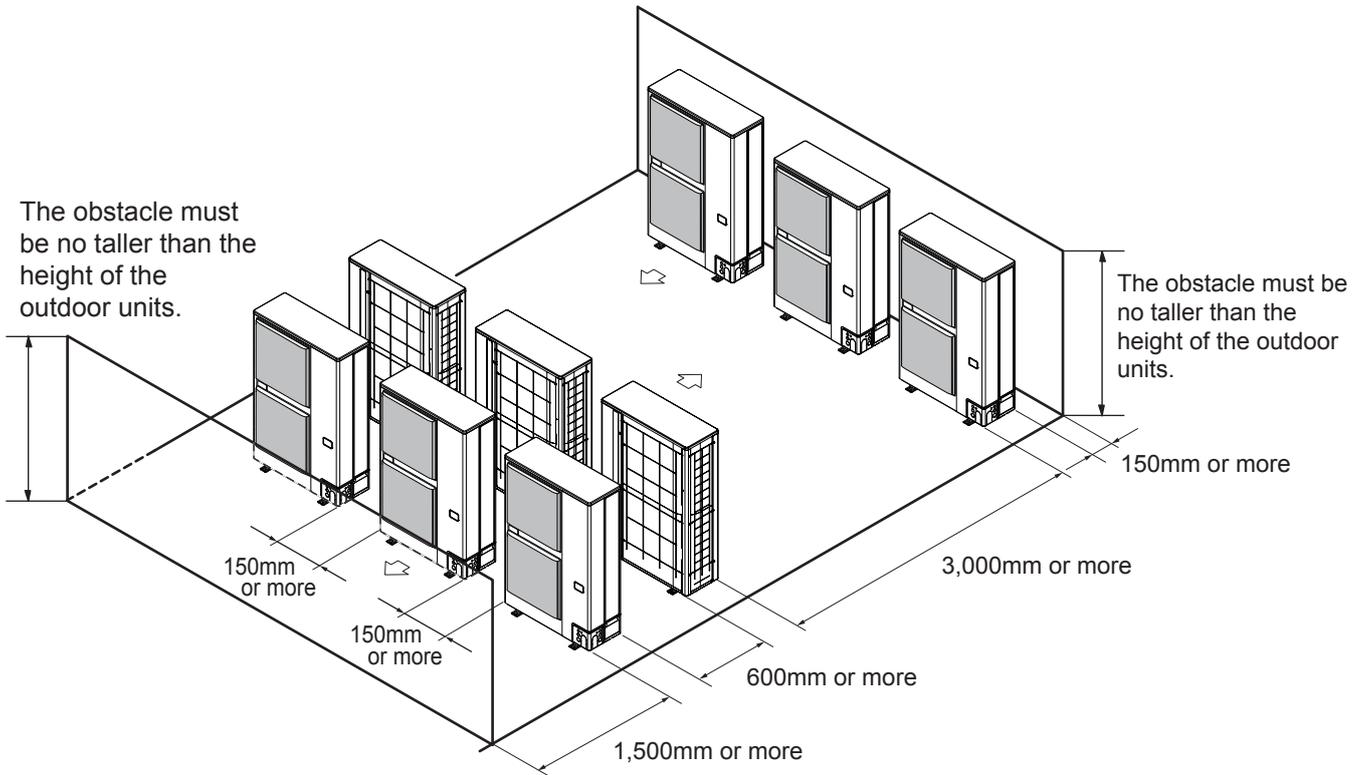


(14) Installation in front and rear direction in series
(Left side, right side and above the unit are opened.)



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- (15) Installation in multiple rows in series
(Left side, right side and above the unit are opened.)



2

- (16) Installation in double stack
(Front side, left side, right side and above the unit are opened.)

*The amount of space is required for removing screws on the rear of the unit. If in case the sufficient space (700mm or more) for maintenance is ensured, installation is possible with the space of 150mm or more.

