Carry-in/Installation

Foundation/Platform Work

- As a reference, the foundation should be made from concrete having a mass about 3 times that of the refrigeration unit. (Absorbing vibration by mass)
- Vibration should be reduced by a platform or anti-vibration pad for avoiding transmission of vibration to the floor and wall.
- To avoid falling, secure the refrigeration unit by using anchor bolts. (Use all securing positions)
- The refrigeration unit must be installed with an inclination angle 1° or below.
- The refrigeration unit must be installed below the altitude of 2,000 m.

If a foundation meeting the requirement above cannot be secured, be sure to check that no abnormal vibration is generated by resonation of the refrigeration unit and piping system.

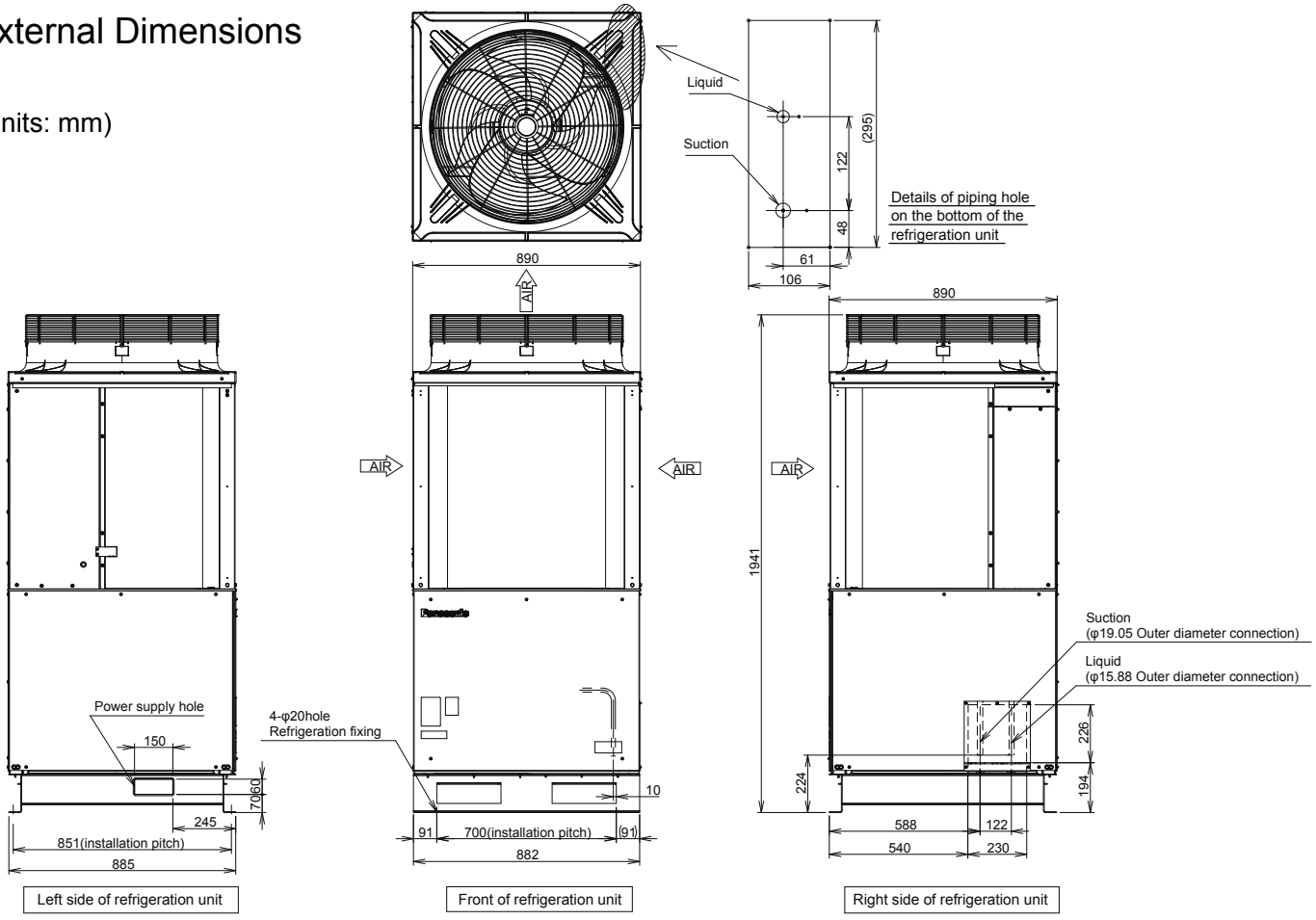
(1) Basic foundation work when the pipe is extended horizontally.
On a concrete foundation 150 mm or higher from the floor surface, place anti-vibration pads (Approx. 8 to 15 mm thick) and secure the unit on the entire unit base by anchor bolts.

(2) Basic foundation work when the pipe is extended downward.
Form an elevated foundation with vertical columns.
Place an anti-vibration pad (thickness of 8 to 15 mm) on the entire surface of the foundation and secure it with anchor bolts.

(3) Anchor bolts
Use M8 size anchor bolts and buried at least 100 mm on the concrete foundation.
Fix unit with double nut and plain washer (28 mm O.D. minimum).

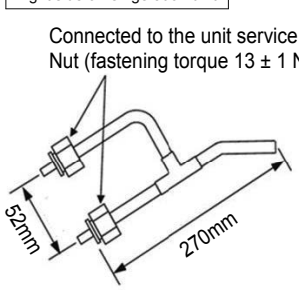
External Dimensions

(Units: mm)



Optional Accessories

The following service piping (optional) is required for the installation and service work of the refrigeration unit.
Service piping for Evacuation, Airtight test, and Refrigerant charging (Model No. SPK-TU125)

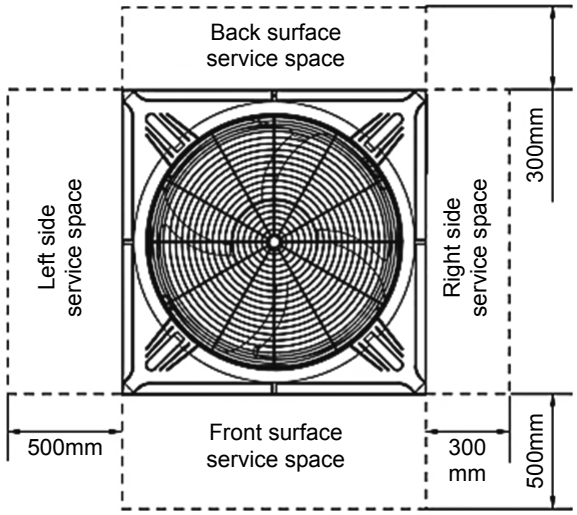


Installation Example

Standard installation

The gas cooler is designed to take air from 3 directions, including the front, left and right side, and blow out from the top.

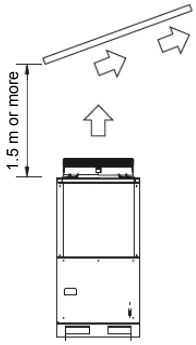
(1) Secure a service space of 500 mm or more on the front and left sides.
(2) Secure a service space of 300 mm or more on the back and right sides.



When there's an obstacle in the upward direction

When there's an obstacle in the upward direction, the installation should not cause a short cycle of the gas cooler air exhaust.

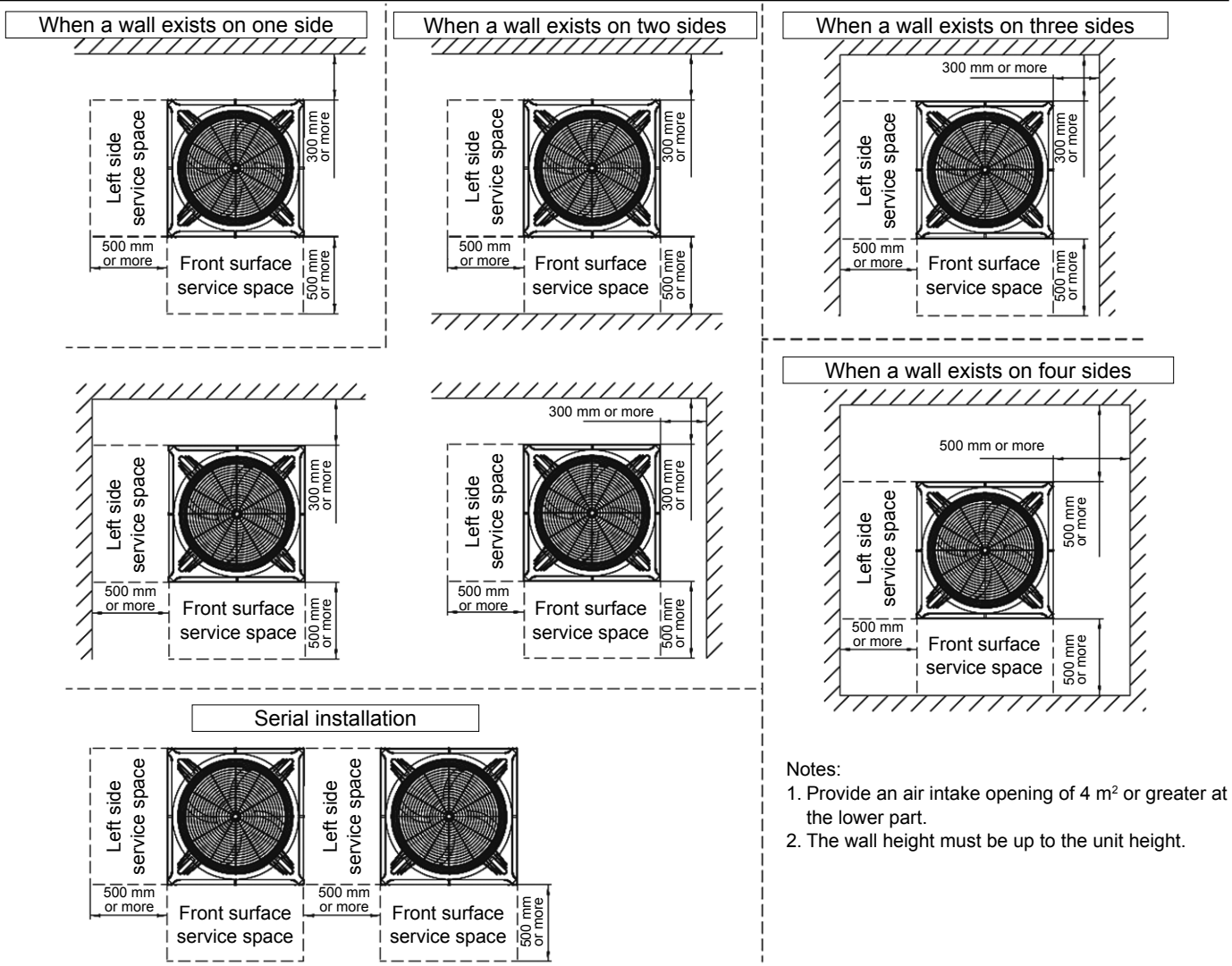
When installing a roof, it should be located at a distance of 1.5 m or more with an upward slope, as illustrated on the right.



Protection in the snowfall areas

(1) Install a snow protection shed at the air outlet of the gas cooler. (On-site installation)
(2) The entire refrigeration unit should not be surrounded by accumulated snow.

Installation example



Notes:
1. Provide an air intake opening of 4 m^2 or greater at the lower part.
2. The wall height must be up to the unit height.