

Indoor unit installation

Safety measures include:

No safety measure

When the room area is sufficiently large, no safety measures are required.

Safety alarm

Do not use the safety alarm as the only safety measure in case the indoor unit is installed in an occupied space where people are restricted in their movement.

When the R32 sensor in the indoor unit detects a refrigerant leak, it will activate the alarm that will warn the user visually and audibly.

Each indoor unit must be connected with an R32 safety system compatible remote controller (e.g. ·BRC1H52/82*· or later type).

Each indoor unit must be connected to a separate remote controller. In case indoor units are operating under group control, it is possible to only use one remote controller per room.

In case the indoor unit is serving a different room than where it is installed, a remote controller is required in both the installed and the served room.

For buildings where sleeping facilities are offered (e.g. hotel), where persons are restricted in their movements (e.g. hospital), where an uncontrolled number of persons is present or buildings where people are not aware of the safety precautions:

It is mandatory to install one of the following devices at a location with 24-hour monitoring.

- a supervisor remote controller
- or a centralised controller, e.g. iTM with external alarm via WAGO module,
- iTM with built-in alarm, ...

The alarm should always be ·15· dB louder than the background noise of the room.

For details, see the manual of the ·outdoor· unit.

Natural ventilation

Natural ventilation is a safety measure where ventilation is made to a place where sufficient air is available to dilute the leaked refrigerant such as a large space.

Step ·1·

Determine total room area, which is the total area of the space that has natural ventilation and the space in which the indoor unit is installed.

Step ·2·

Use the graph or table to determine the total refrigerant charge limit in the system.

See table ·2·.

If the installation height is more than ·2.2· m, a higher total refrigerant charge limit of the system can apply.

To know the total refrigerant charge limit of the system in case the installation height is more than ·2.2· m, refer to the online tool (VRV Xpress).