·SV· unit installation

Safety measures include:

No safety measure

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

Safety alarm

An external alarm circuit (field supply) must be connected to the SVS output of the ·SV· unit.

When the R32 sensor in the ·SV· unit detects a refrigerant leak, the SVS output closes and activates the alarm. An error message is displayed on the remote controllers of the connected indoor units.

- This alarm system must warn audibly AND visibly (e.g. a loud buzzer AND a flashing light). The audible alarm must be ·15· dBA above the background sound level at all times.

- At least one alarm must be installed in the occupied space in which the ·SV· unit is installed.

- For the occupancy listed below, the alarm system must additionally warn at a supervised location with 24-hour monitoring. To warn at a supervised location, connect a supervisor remote controller (e.g. ·BRC1H52*·) to the system

    - with sleeping facilities.
    - where an uncontrolled number of people are present.
    - accessible for persons not familiar with the necessary safety precautions.

    - where people are restricted in their movement

- Do NOT use the external safety alarm as the only safety measure if the ·SV· unit is installed in an occupied space where people are restricted in their movement.

For details, see the manual of the ·SV· 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 ·5·.
Note: If the installation height is more than ·2.2· m, different boundaries for the applicable safety measures 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).