

Refrigerant charge restrictions

The total amount of refrigerant in the system shall be less than or equal to the maximum allowed total refrigerant amount.

For more information, refer to the installation manual.

Step 1-

Determine the area:

- of the rooms where an indoor unit is installed
- AND of the area of the rooms served by a ducted indoor unit installed in a different room

Step 2-

Use the graph or table to determine the total refrigerant charge limit in the system for each indoor unit AND for each room served by a ducted indoor unit.

Determine the value for both the lowest underground floor AND the other floors.

The total refrigerant charge limit depends on the effective installation height, measured between:

- the bottom side of the indoor unit and the lowest point of the floor, in case the indoor unit is installed in the same room.
- the bottom of the duct opening and the lowest point of the floor, for rooms served by a ducted indoor unit installed in a different room.

Step 3-

The total refrigerant charge in the system MUST be less than the lowest value of the refrigerant charge limit for each room where an indoor unit is installed or that is served by a ducted indoor unit installed in a different room.

If NOT, change the installation (see choices below) and repeat all of the above steps.

- 1 Increase the area of the room restricting the total charge.
OR
- 2 Decrease the piping length by changing the system layout.
OR
- 3 Increase the installation height of the unit or duct.
OR
- 4 Add additional countermeasures as described in applicable legislation.
OR
- 5 Finetune system with more detailed calculations in VRV Xpress.

