

Check Of Limit Density; Installing Distribution Joint - Sanyo Mini ECO-i SPW-ASR74GXH56(A/B) Installation Instructions Manual

System air conditioner

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1-10. Check of Limit Density

When installing an air conditioner in a room, it is necessary to ensure that even if the refrigerant gas accidentally leaks out, its density does not exceed the limit level for that room.

If the density could exceed the limit level, it is necessary to provide an opening between the unit and the adjacent room, or to install mechanical ventilation which is interlocked with the leak detector.

(Total refrigerant charged amount: kg)

(Min. indoor volume where the indoor unit is installed: m

\leq Limit density 0.3 (kg/m

The limit density of refrigerant which is used in this unit



is 0.3 kg/m
(ISO 5149).

The shipped outdoor unit comes charged with the amount of refrigerant fixed for each type, so add it to the amount that is charged in the field. (For the refrigerant charge amount at shipment, refer to the unit's nameplate.)

CAUTION

1-11. Installing Distribution Joint



(1) Refer to "HOW TO ATTACH DISTRIBUTION JOINT" enclosed with the optional distribution joint kit (APR-RP160AG).

(2) In order to prevent accumulation of refrigerant oil in stopped units, if the main tubing is horizontal then each branch tubing length should be at an angle that is greater than horizontal. If the main tubing is vertical, provide a raised starting portion for each branch.

(3) If there are height differences between indoor units or if branch tubing that follows a distribution joint is connected to only 1 unit, a trap or ball valve must be added to that distribution joint. (When adding the ball valve, locate it within 40 cm of the distribution joint.) (Consult with SANYO separately concerning the ball valve.)

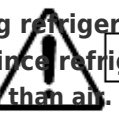
If a trap or ball valve is not added, do not operate the system before repairs to a malfunctioning unit are completed. (The refrigerant oil sent through the tubing to the malfunctioning unit will accumulate and may damage the compressor.)

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Always check the gas density limit for the room in which the unit is installed.

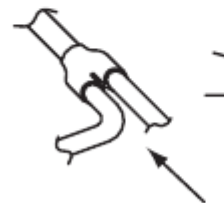
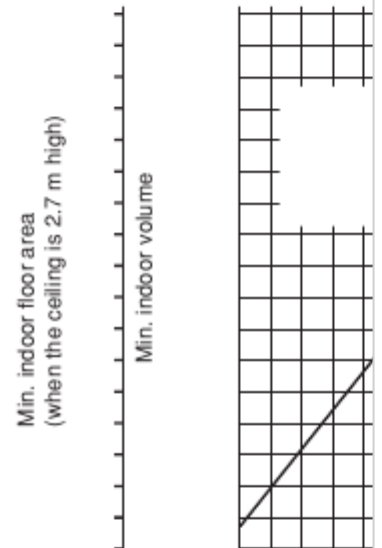
3)

Pay special attention to any location, such as a basement, etc., where leaking refrigerant can accumulate, since refrigerant gas is heavier than air.



Minimum indoor volume & floor area as against the amount of refrigerant is roughly as given in the following table.

- 2
- 3
- m
- m
- 100
- 270.0
- 95
- 256.5
- 90
- 243.0
- 85
- 229.5
- 80
- 216.0
- 75
- 202.5
- 70



189.0
 65
 175.5
 60
 162.0
 55
 148.5
 3
)
 50
 135.0
 45
 121.5
 40
 108.0
 35
 94.5
 30
 81.0
 25
 67.5
 20
 54.0
 15
 40.5
 20



Tube branching methods (horizontal use)

B

Types of vertical trap specifications

(When using ball valve)

Main tubing

Ball valve

(BV: purchased separately)

Indoor unit (1)

(When not using ball valve)

Main tubing

Branch tubing is directed upward.

Indoor unit is directed downward

11

Range below the density limit of

3
 0.3 kg/m

(Countermeasures not needed)

Range above the density limit of

3
 0.3 kg/m

(Countermeasures needed)

30

40

50

60

70

80 kg

Total amount of refrigerant

B

Horizontal

A

A

line

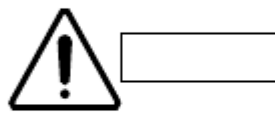
View as seen

from arrow

Arrow view

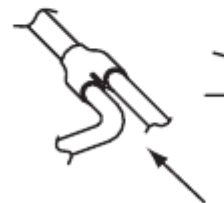
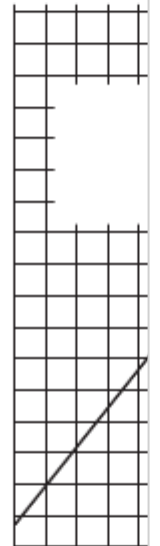
Indoor unit (more than 2 units)

(If only 1 unit is connected, a ball



Min. indoor floor area
 (when the ceiling is 2.7 m high)

Min. indoor volume



valve is also needed on this side.)
Horizontal
(Each unit is
Indoor unit
connected to tubing
that is either level or
is directed
More than
downward.)
20 cm



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