



# Check Of Limit Density; Installing Distribution Joint - Sanyo R410A Installation Instructions Manual

W-3way eco-i system air conditioner



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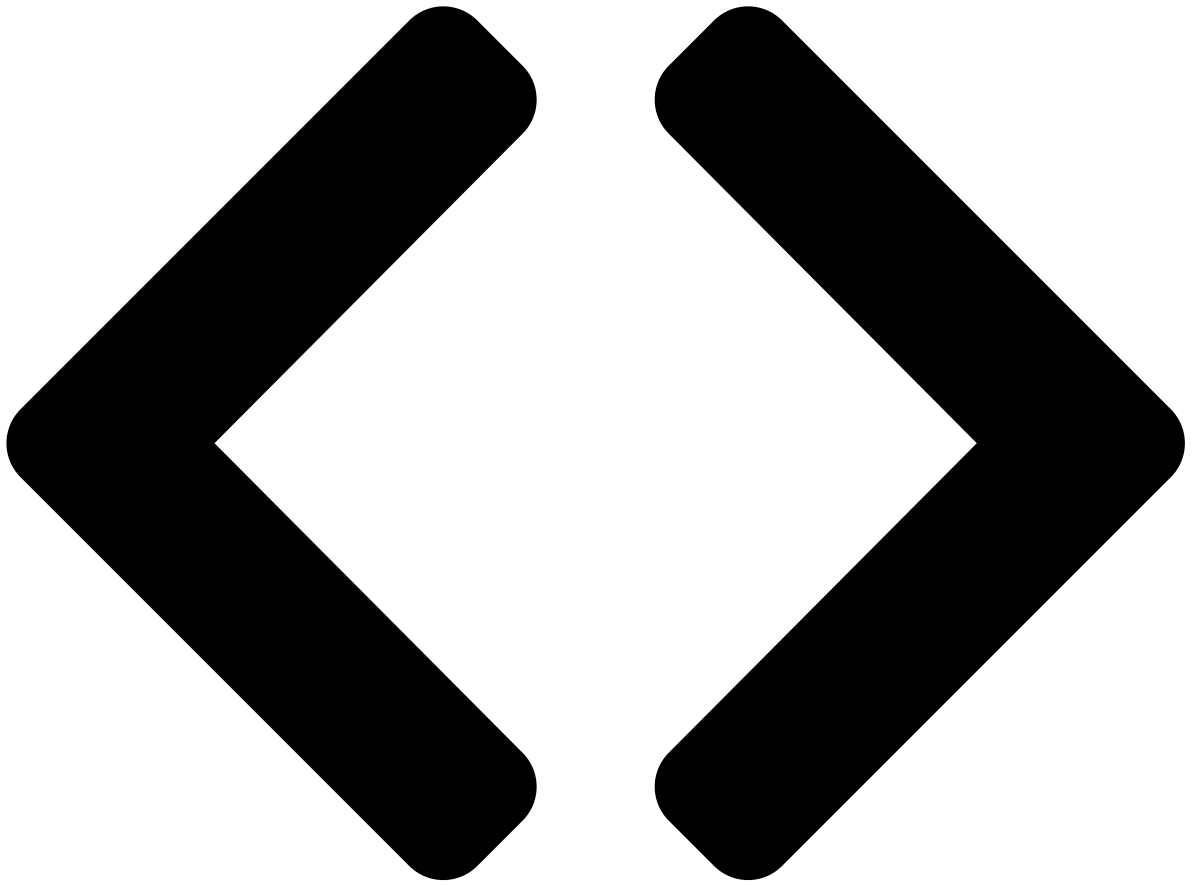
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## Bookmarks







Enlarged version



### 1-11. 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.

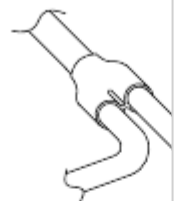
### 1-12. Installing Distribution Joint

#### **CAUTION**

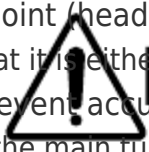
(1) Refer to "HOW TO ATTACH DISTRIBUTION JOINT" enclosed with the optional distribution joint kit (APR-CHRZP900BAB, RZP224BAB, RZP680BAB, RZP1350BAB).



(2) When creating a branch using a commercially available



T-joint (header joint system), orient the main tubing so that it is either horizontal (level) or vertical. 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.



**[Header joint system]**

● Be sure to solidly weld shut the T-joint end (marked by "X" in the figure). In addition, pay attention to the insertion depth of each connected tube so that the flow of refrigerant within the T-joint is not impeded.



● When using the header joint system, do not make further branches in the tubing.

● Do not use the header joint system on the outdoor unit side.

(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 15 - 3/4" of the distribution joint.)

**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.)**

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

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

**Tube branching methods (horizontal use)**

**Header joint system (Indoor)**

Outdoor

Indoor

Horizontal

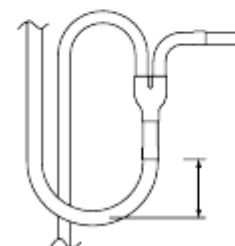
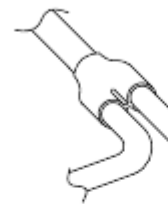
line

L3 6.56 ft.

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

**12**

B

Horizontal

A

A

line

View as seen

B

from arrow

Arrow view

Install at a positive angle

Indoor

Install at a positive angle (15 - 30°)

Indoor

Solidly welded

Horizontal

line

shut (X)

Indoor unit (more than 2 units)

(If only 1 unit is connected, a ball valve is also needed on this side.)

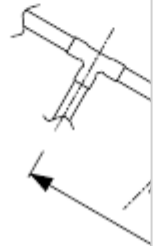
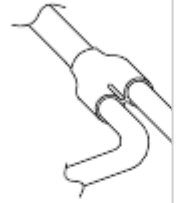
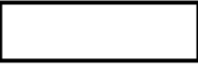
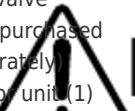
Horizontal

Indoor unit

(Each unit is connected to tubing that is either level or is directed downward.)

More than

7-7/8"



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