

Prepare The Tubing; Connect The Tubing - Sanyo R410A Installation Instructions Manual

W-3way eco-i system air conditioner

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Bookmarks



3-5. Prepare the Tubing

- Material: Use C1220 phosphorous deoxidized copper as described in JIS H3300, "Copper and Copper Alloy Seamless Pipes and Tubes."
(For tubes that are $\varnothing 1"$ ($\varnothing 25.4$ mm) or larger, use 1/2H material or H material. For all others use O material.)

- Tubing size
Use the tubing size indicated in the table below.

-  When cutting the tubing, use a tube cutter, and be sure to remove any burrs.
(The same applies to distribution tubing (optional).)

● When bending the tubes, bend each tube using a radius that is at least 4 times the outer diameter of the tube.
When bending, use sufficient care to avoid crushing or damaging the tube.

● For flaring, use a flare tool, and be sure that flaring is performed correctly.

CAUTION

Refrigerant tubing (Existing tubing can be used.)

Outer dia.

Thickness

ø1/4" (ø6.35)

t1/32" (t0.8)

ø3/8" (ø9.52)

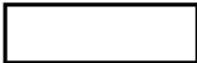
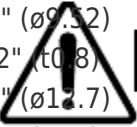
t1/32" (t0.8)

ø1/2" (ø12.7)

t1/32" (t0.8)

ø5/8" (ø15.88)

t5/128" (t1.0)



3-6. Connect the Tubing

● Use the supplied connector tubing. (See figure below.)

07263 type (8 horsepower)

4

3

2

1

09663 type (10 horsepower)

2

4

3

1

Refrigerant tube port

● Use caulking, putty, or a similar material to fill any gaps at the refrigerant tube port (prevent rainwater, dust or foreign substances from entering the unit.)

* Perform this work even if the tubing is routed out in a downward direction.

Use sufficient caution during preparation of the tubing. Seal the tube ends by means of caps or taping to prevent dust, moisture, or other foreign substances from entering the tubes.

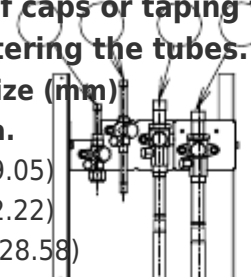
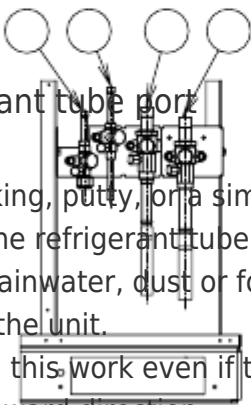
Tubing size (mm)

Outer dia.

ø3/4" (ø19.05)

ø7/8" (ø22.22)

ø1-1/8" (ø28.58)



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○			→
○			
○			

○			→
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Ø1-3/8" (Ø34.92)

Refrigerant

Connection method
tubing

1

Brazed connection

Suction tube

2

Discharge tube

Brazed connection

3

Liquid tube

Brazed connection

4

Flared connection

Balance tube

Refrigerant

Connection method
tubing

1

Brazed connection

Suction tube

2

Discharge tube

Brazed connection

3

Liquid tube

Brazed connection

Flared connection

4

Balance tube

) in order to

Thickness

over t5/128" (t1.0)

t5/128" (t1.0)

t5/128" (t1.0)

over t3/64" (t1.1)

Use supplied
connector tube?

Yes (Ø3/4"

Ø7/8")

No

No

No

Use supplied

connector tube?

Yes (Ø3/4"

Ø7/8")

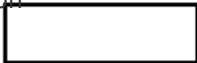
Yes (Ø5/8"

Ø3/4")

No

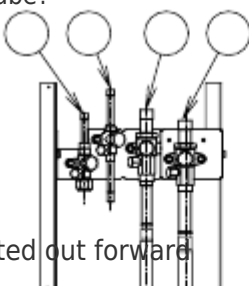
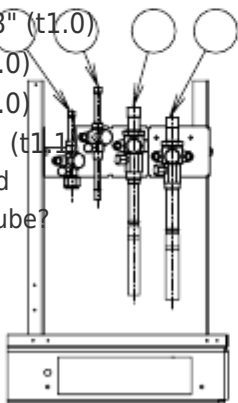
No

Tubing routed out forward



Brazed connection			
Suction tube			
2			
Discharge tube			
Brazed connection			
3			
Liquid tube			
Brazed connection			
Flared connection			
4			

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Tubing
cover

Tubing routed out downward

Base plate

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