

Insulating The Refrigerant Tubing - Sanyo C4272R S/C Installation Instructions Manual

Sanyo split system heat pump air conditioner installation instructions

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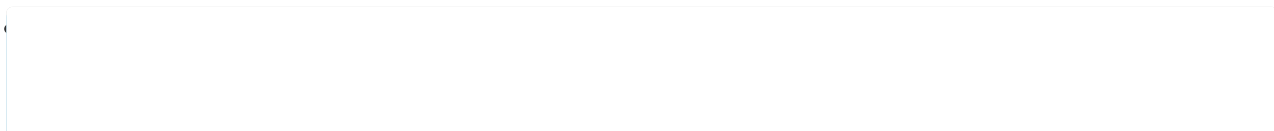
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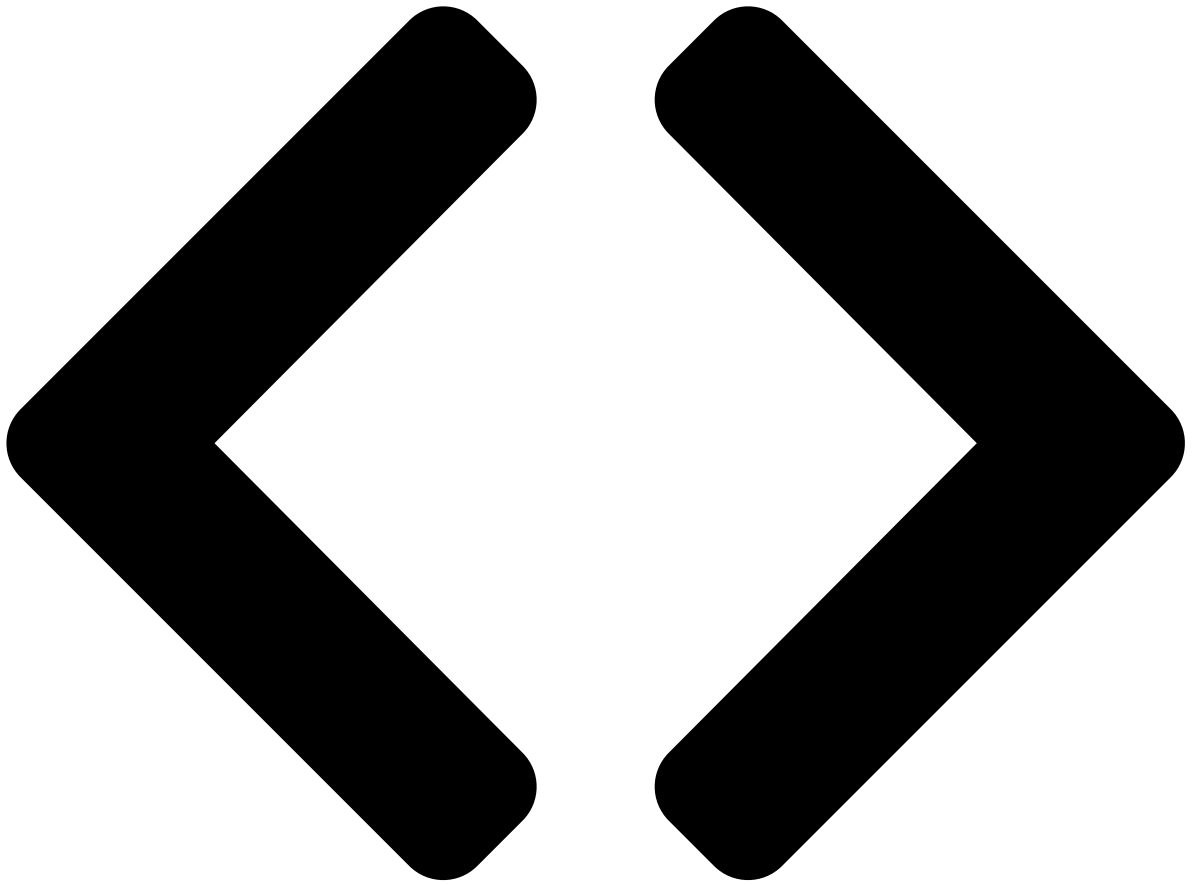


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Bookmarks



Enlarged version

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4:00 PM

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Do not use a spanner to tighten the valve stem caps.
Doing so may damage the valves.

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Depending on the installation conditions, applying
excessive torque may cause the nuts to crack.

Precautions for Packed Valve Operation

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If the packed valve is left for a long time with the valve
stem cap removed, refrigerant will leak from the valve.
Therefore, do not leave the valve stem cap removed.

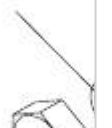
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Use a torque wrench to securely tighten the valve stem
cap.

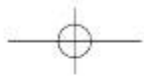
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Valve stem cap tightening torque:

Charging port



"
 ø3/8
 (Liquid side)
 "
 ø5/8
 (Gas side)



9-3. Insulating the Refrigerant Tubing

Tubing Insulation

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 Thermal insulation must be applied to all unit tubing, including the distribution joint (purchased separately).
 * For gas tubing, the insulation material must be heat resistant to 248°F or above. For other tubing, it must be heat resistant to 176°F or above.
 Insulation material thickness must be 13/32 in. or greater.
 If the conditions inside the ceiling exceed DB 86°F and RH 70%, increase the thickness of the gas tubing insulation material by 1 step.

CAUTION

Taping the flare nuts

Wind the white insulation tape around the flare nuts at the gas tube connections. Then cover up the tubing connections with the flare insulator, and fill the gap at the union with the supplied black insulation tape. Finally, fasten the insulator at both ends with the supplied vinyl clamps.

(Fig. 9-10)

Insulation material

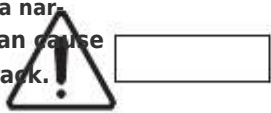
The material used for insulation must have good insulation characteristics, be easy to use, be age resistant, and must not easily absorb moisture.

CAUTION

- Page 99
- 8 - 10 N • m (80 - 100 kgf • cm)
- 19 - 21 N • m (190 - 210 kgf • cm)
- 28 - 32 N • m (280 - 320 kgf • cm)

If the exterior of the outdoor unit valves has been finished with a square duct covering, make sure you allow sufficient space to access the valves and to allow the panels to be attached and removed.

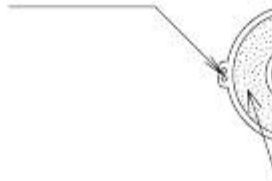
After a tube has been insulated, never try to bend it into a narrow curve because it can cause the tube to break or crack.



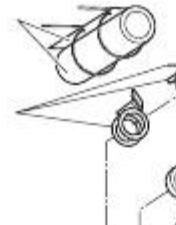
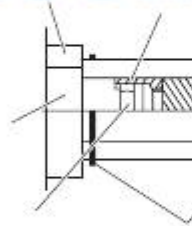
- Packed valve
- Valve stem
- Valve stem cap

2 tubes arranged together

- Inter-unit control wiring
- Sealer (supplied)
- Insulation tape (white)
- Unit side insulator
- Flare nut
- Drain insulator and clamp.
- Large



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(supplied)
Packing
clamp.
Small
hose band
(supplied)

Never grasp the drain or refrigerant connecting outlets when moving the unit.

99
Charging port
Main valve

Fig. 9-8

Gas tube
Liquid tube
Armoring tape
Insulation

Fig. 9-9

(supplied)
Flare insulator (supplied)
Tube insulator
(not supplied)
Heat resistant
248°F or above
Vinyl clamps (supplied)

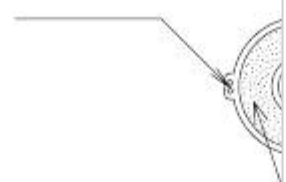
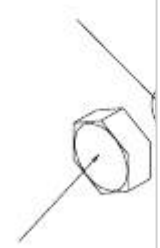
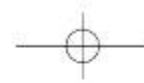
Fig. 9-10

Refrigerant tubing and insulator
(not supplied)
Drain pipe and insulator
(not supplied)

Insulation
tape
Vinyl
Flare
clamp
insulator
Seal

The procedure used for installing the insulator for both gas and liquid tubes is the same.

Fig. 9-11



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