Connecting Tubing Between Indoor And Outdoor Units - Sanyo ECO R410A Installation Instructions Manual

Eco-i system air conditioner

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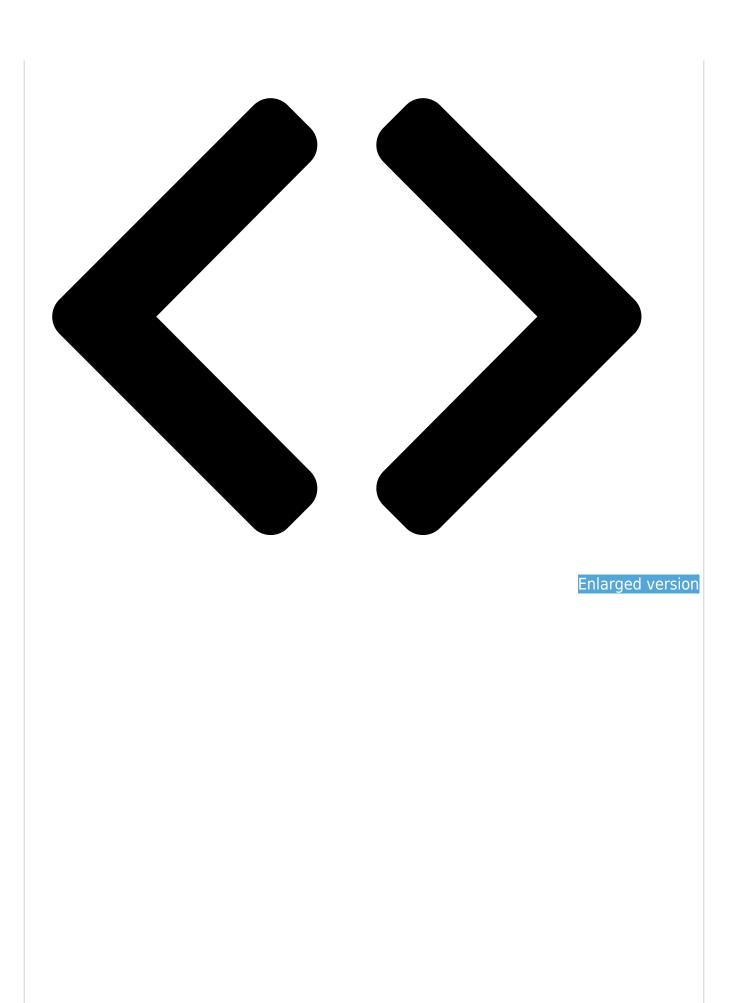
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Caution Before Connecting Tubes Tightly

(1) Apply a sealing cap or water-proof tape to prevent dust or water from entering the tubes before they are used.

(2) Be sure to apply refrigerant lubricant to the matching surfaces of the flare and union before connecting them together. This is effective for reducing gas leaks. (Fig. 5-4)

(3) For proper connection, align the union tube and flare tube straight with each other, then screw in the flare nut lightly at first to obtain a smooth match.(Fig. 5-5)

 Adjust the shape of the liquid tube using a tube bender at the installation site and connect it to the liquid tubing side valve using a flare.



Cautions During Brazing

Replace air inside the tube with nitrogen gas to prevent copper oxide film from forming during the brazing process. (Oxygen, carbon dioxide and Freon are not acceptable.)

Do not allow the tubing to get too hot during brazing. The nitrogen gas inside the tubing may overheat, causing refrigerant system valves to become damaged. Therefore allow the tubing to cool when brazing.

Use a reducing valve for the nitrogen cylinder.

Do not use agents intended to prevent the formation of oxide film. These agents adversely affect the refrigerant and refrigerant oil, and may cause damage or malfunctions.

5-2. Connecting Tubing Between Indoor and Outdoor Units

 (1) Tightly connect the indoor-side refrigerant tubing extended from the wall with the outdoor-side tubing.
(2) To fasten the flare nuts, apply specified torque as at right:

When removing the flare nuts from the tubing connections, or when tightening them after connecting the tubing, be sure to use 2 adjustable wrenches or spanners as shown. (Fig. 5-6)

If the flare nuts are over-tightened, the flare may be damaged, which could result refrigerant leakage and cause in injury or asphyxiation to room occupants.

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• For the flare nuts at tubing connections, be sure to use the flare nuts that were supplied with the unit, or else flare nuts for R410A (type 2). The refrigerant tubing that is used must be of the correct wall thickness as shown in the table at right.

Torque wrench Indoor unit

Tube diameter

ø1/4" (ø6.35 mm) ø3/8" (ø9.52 mm) ø1/2" (ø12.7 mm) ø5/8" (ø15.88 mm) ø3/4" (ø19.05 mm)

Because the pressure is approximately 1.6 times higher than conventional refrigerant pressure, the use of ordinary flare nuts (type 1) or thin-walled tubes may result in tube rupture, injury, or asphyxiation caused by refrigerant leakage.

In order to prevent damage to the flare caused by

over-tightening of the flare nuts, use the table above as a guide when tightening. When tightening the flare nut on the liquid tube, use an adjustable wrench with a nominal handle length of 7-7/8 in. 40 Apply refrigerant lubricant Fig. 5-4 Flare nut Union Fig. 5-5 Spanner Outdoor unit Fig. 5-6 Tightening torque, Tube thickness approximate 120 - 160 lbs inch (140 - 180 kgf cm) 300 - 360 lbs inch (340 - 420 kgf ManualsLib.co cm) 430 - 530 lbs inch (490 - 610 kgf cm) 590 - 710 lbs inch (680 - 820 kgf cm) 870 - 1040 lbs inch (1000 - 1200 kgf cm) 1/32" (0.8 mm) 1/32" (0.8 mm) 1/32" (0.8 mm)

5/128" (1.0 mm) over 5/128" (over 1.0 mm)



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