

Connecting Tubing Between Indoor And Outdoor Units - Sanyo 26 series Installation Instructions Manual

Split system heat pump air conditioner

1

2

3

4

5

Table Of Contents

6

7

8

9

10

11

12

13

14

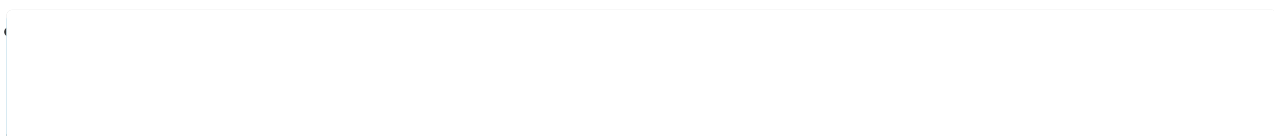
15

16

17

18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67

68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110

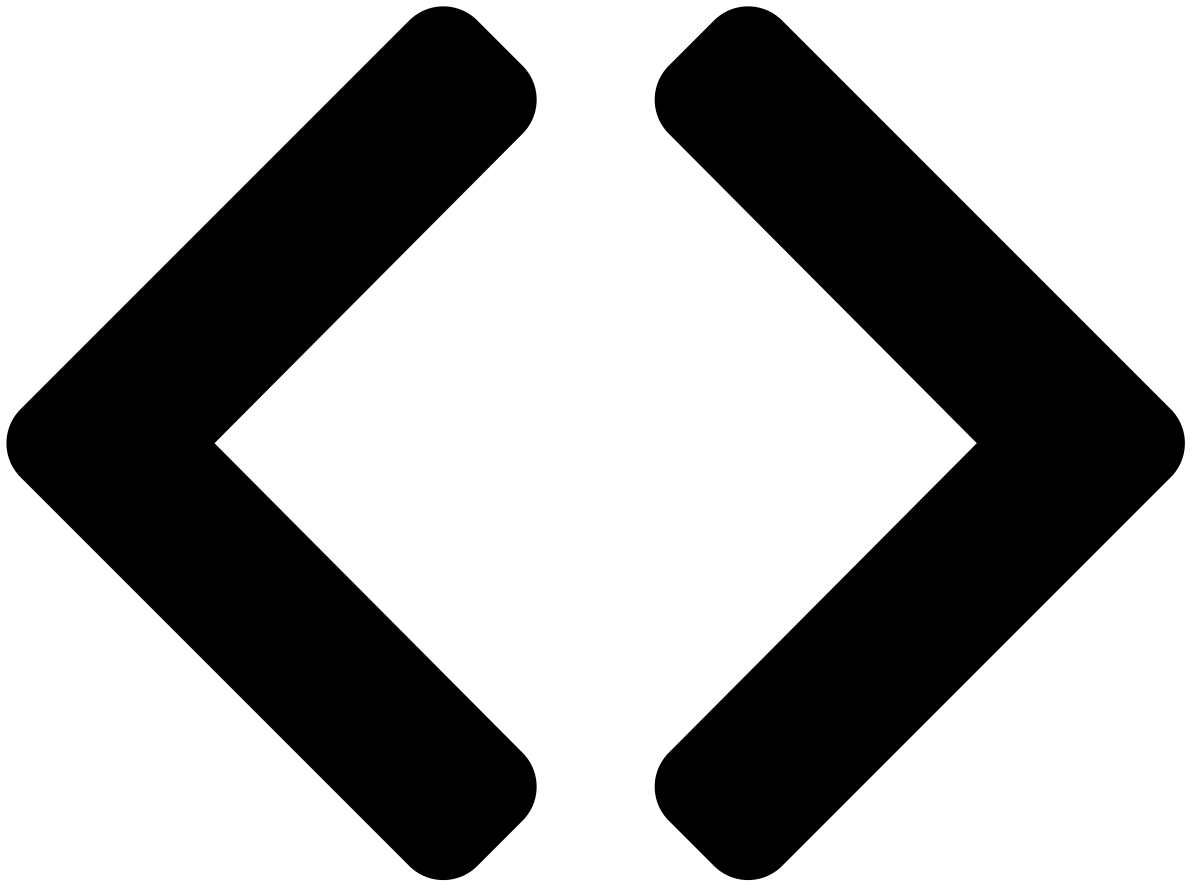


•

[Table of Contents](#)

•

Bookmarks



Enlarged version

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. 9-4)

(3) For proper connection, align the union tube and flare tube straight with each other, then screw on the flare nut lightly at first to obtain a smooth match. (Fig. 9-5)

G

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

G



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.)

G

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.

G

Use a reducing valve for the nitrogen cylinder.

G

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.

9-2. 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.

G

When removing the flare nuts from the tubing connections, or when tightening them after connecting the tubing, be sure to use 2 monkey wrenches or spanners as shown. (Fig. 9-6)

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

G

When removing or tightening the gas tube flare nut, use 2 monkey wrenches together: one at the gas tube flare nut, and one at part A. (Fig. 9-7)

G

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

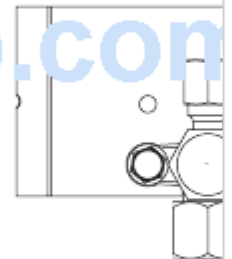
ø1/4" (6.35 mm)

ø3/8" (9.52 mm)

ø1/2" (12.7 mm)

ø5/8" (15.88 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.

G

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.

G

When tightening the flare nut on the liquid tube, use a monkey wrench with a nominal handle length of 7-7/8 in.

97

Apply refrigerant lubricant here and here

Fig. 9-4

Flare nut
Union

Fig. 9-5

Spanner
Outdoor unit

Fig. 9-6

A

Fig. 9-7
Tightening torque
Tube thickness
(approximate)

14 - 18 N
m

(140 - 180 kgf
cm)

34 - 42 N
m

(340 - 420 kgf
cm)

49 - 61 N
m

(490 - 610 kgf
cm)

68 - 82 N
m

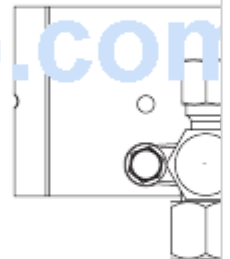
(680 - 820 kgf
cm)

1/32 in.

1/32 in.

1/32 in.

1/32 in.



ManualsLib.com

[Previous Page](#)
[Next Page](#)

1
...
94
95
96
97
98
99
100
101

Quick Links:

[Indoor Unit](#)

[Outdoor Unit](#)

[Trouble Diagnostics](#)

Related Manuals for Sanyo 26 series

[Air Conditioner Sanyo Big PACi 18 Series Technical Data & Service Manual](#)

Big pack i dc inverter (275 pages)

[Air Conditioner Sanyo C4272R Service Manual](#)

Sanyo split system air conditioner service manual (181 pages)

[Air Conditioner Sanyo C4272R S/C Installation Instructions Manual](#)

Sanyo split system heat pump air conditioner installation instructions (111 pages)

[Air Conditioner Sanyo C3072R Parts List](#)

Outdoor unit (4 pages)

[Air Conditioner Sanyo CH3672R Parts List](#)

Outdoor unit (4 pages)

[Air Conditioner Sanyo 000-31 Specifications](#)

Concealed duct air conditioner & heat pump 24,000-31,200 btu/h 13.9-14.9 seer
(2 pages)

[Air Conditioner Sanyo 26KS72R Specifications](#)

Wall mounted air conditioner (2 pages)

[Heat Pump Sanyo 26THW72R Specifications](#)

Ceiling suspended heat pump (2 pages)

[Air Conditioner Sanyo 26UW72R Specifications](#)

Concealed duct air conditioner (2 pages)

[Air Conditioner Sanyo 26KHS72R Submittal Data](#)

Wall mounted heat pump (2 pages)

[Air Conditioner Sanyo 36UW72R Specifications](#)

Concealed duct air conditioner (2 pages)

[Air Conditioner Sanyo KHHS2672R Specifications](#)

Wall mounted heat pump with heater (2 pages)

[Air Conditioner Sanyo KHS3072R Specifications](#)

Wall mounted air conditioner (2 pages)

[Air Conditioner Sanyo KHS3672R Datasheet](#)

Wall mounted air conditioner (2 pages)

[Air Conditioner Sanyo THW3672R Specifications](#)

Ceiling suspended air conditioner (2 pages)

[Air Conditioner Sanyo XHW2672R Specifications](#)

Ceiling recessed air conditioner (2 pages)

Related Content for Sanyo 26 series

[COOL Connecting Tubing Between Indoor And Outdoor Units](#)

Sanyo COOL

[XHS1271 Connecting Tubing Between Indoor And Outdoor Units](#)

Sanyo XHS1271

[XS1872 Connecting Tubing Between Indoor And Outdoor Units](#)

Sanyo XS1872

[KS1852 Connecting Tubing Between Indoor And Outdoor Units](#)

Sanyo KS1852

[18KLS72 Connecting Tubing Between Indoor And Outdoor Units](#)

Sanyo 18KLS72

[18KHS72 Connecting Tubing Between Indoor And Outdoor Units](#)

Sanyo 18KHS72

[09KHS71 Connecting Tubing Between Indoor And Outdoor Units](#)

Sanyo 09KHS71

[CH3082 Connecting Tubing Between Indoor And Outdoor Units](#)

Sanyo CH3082

This manual is also suitable for:

[30 series](#)[36 series](#)[Split system](#)[heat pump](#)[air conditioner](#)[Ch2672r](#)[Ch3072r](#)[Ch3672r](#) ... [Show all](#)