

Precautions For Installation Using New Refrigerant - Sanyo C4272R S/C Installation Instructions Manual

Sanyo split system heat pump air conditioner installation instructions

1

2

3

4

5

Table Of Contents

6

7

8

9

10

11

12

13

14

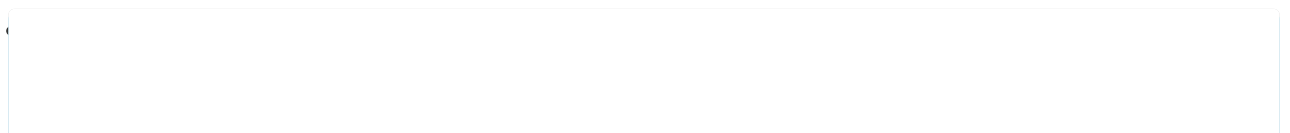
15

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
111



•

[Table of Contents](#)

•

Bookmarks



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Precautions for Installation Using New Refrigerant

1. Care regarding tubing

1-1. Process tubing

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Material: Use C1220 phosphorous deoxidized copper specified in JIS H3300 "Copper and Copper Alloy Seamless Pipes and Tubes."

G

Tubing size: Be sure to use the sizes indicated in the table below.

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Use a tube cutter when cutting the tubing, and be sure to remove any flash. This also applies to distribution joints (optional).

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When bending tubing $\phi 5/8$ " or smaller, use a bending radius that is 4 times the outer diameter of the tubing or larger.

CAUTION

Material



Outer diameter

Copper tube

Wall thickness

1-2. Prevent impurities including water, dust and oxide from entering the tubing. Impurities can cause R410A refrigerant deterioration and compressor defects. Due to the features of the refrigerant and refrigerating machine oil, the prevention of water and other impurities becomes more important than ever.

2. Be sure to recharge the refrigerant only in liquid form.

2-1. Since R410A is a non-azeotrope, recharging the refrigerant in gas form can lower performance and cause defects of the unit.

2-2. Since refrigerant composition changes and performance decreases when gas leaks, collect the remaining refrigerant and recharge the required total amount of new refrigerant after fixing the leak.

3. Different tools required

3-1. Tool specifications have been changed due to the characteristics of R410A.

Some tools for R22- and R407C-type refrigerant systems cannot be used.

New

Item

tool?

Manifold gauge

Yes

Charge hose

Yes

Vacuum pump

Yes

Leak detector

Yes

Flaring oil

Yes



* Using tools for R22 and R407C and new tools for R410A together can cause defects.

Page 4

Use sufficient care in handling the tubing. Seal the tubing ends with caps or tape to prevent dirt, moisture, or other foreign substances from entering. These substances can result in system malfunction.

1/4

1/32

1/32

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R407C tools compatible with R410A?

No

Types of refrigerant, refrigerating machine oil, and pressure gauge are different.

No

To resist higher pressure, material must be changed.

Yes

Use a conventional vacuum pump if it is equipped with a check valve. If it has no check valve, purchase and attach a vacuum pump adapter.

No

Leak detectors for CFC and HCFC that react to chlorine do not function because R410A contains no chlorine. Leak detector for HFC134a can be used for R410A.

No

For systems that use R22, apply mineral oil (Suniso oil) to the flare nuts on the tubing to prevent refrigerant leakage. For machines that use R407C or R410A, apply synthetic oil (ether oil) to the flare nuts.

Unit: inch

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3/8

1/2

5/8

1/32

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| | | | | | |

5/128

Remarks

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Manifold gauge

Vacuum pump

Outlet

Inlet |



[Table of Contents](#)

[Previous Page](#)

[Next Page](#)

1
2
3
4
5
6
7
8

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