# Selecting Refrigerant Tubing Size And Calculating The Amount Of Additional Charge - Sanyo SPW-X483GH56 Installation Instruction

Eco multi system air conditioner

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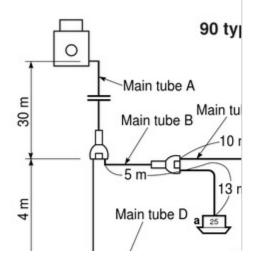




1-11. Selecting Refrigerant Tubing Size and Calculating the Amount of Additional Charge

Table 1-17. Selecting Refrigerant Tubing Size and Calculating the Amount of Addition

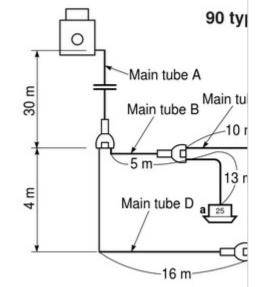
Rating capacity Type <b>Table 1-17</b>		Unit: kv
Cooling	Rating of	capacity
25 type: a <b>Type</b> 7.3	Cooling	Heating
12 type: b 3.6 25 type: a	7.3	8.0
<sup>9 type: c</sup> 12 type: b	3.6	4.2
18 type: d <b>9 type: c</b>	2.8	3.2
5.6 36 type: e <sup>18</sup> type: d	5.6	6.3



The tubing size is selected and the amount of additional charge can be found in the table of refrigerant Tubing Size and Calculating the Amount of Addition

Refrigerant amounts must be calculated for the amount of additional charge per 1m of narrow tube

size.	Table 1-17	22	Unit: kw
Table	1-18 ional R <b>afyipe</b> rant Cha	Rating o	capacity
Main		Cooling	Heating
A B	25 type: a	7.3	8.0
C D	12 type: b	3.6	4.2
Distri	bution bypejpe:a	2.8	3.2
branc 12 ty	h 18 type: d pe:b	5.6	6.3
9 typ	e:c 36 type: e	10.6	11.4



18 type:d

36 type:e

Total amount

Unit: kw Heating

The tubing size is selected and the amount of additional charge can be found refrigerant tubing sizes using the tubing system of each indoor unit.

 $^{6.3}_{11.4}$  Refrigerant amounts must be calculated for the amount of additional charge per 1m of

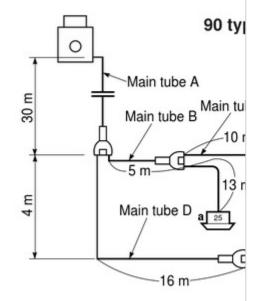
Total cooling capacity of the

#### unit aft Falbled 15 tri 18 ution Additional Refrigerant Charge

7.3 + 3.6 + 2.8 + 5.6 +	10.6				
= 29.9 kw 7.3 + 3.6 + 2.8 = 13.7 kw 3.6 + 2.8 = 6.4 kw		Total cooling capacity of the unit after the distribution joint	Wide tube	Narrow tube	①Tubii lengt
5.6 + 10.6 = 16.2 kw 7.3 kw (13 m) 3.6 kw (8 m)	А	7.3 + 3.6 + 2.8 +5.6 + 10.6 = 29.9 kw	28.58 (1 1/8)	12.7 (1/2)	30
2.8 kw (18 m)	В	7.3 + 3.6 + 2.8 = 13.7  kw	19.05(3/4)	9.52 (3/8)	5
5.6 kw ( 6 m) 10.6 kw (10 m)	С	3.6 + 2.8 = 6.4  kW	15.88(5/8)	9.52 (3/8)	10
Main tube A Main tube B	D	5.6 + 10.6 = 16.2 kw	25.4 (1)	12.7 (1/2)	20
5 m Distribution	25 type:a	7.3 kw (13 m)	15.88(3/8)	9.52 (3/8)	13
Main tube D 16 m	12 type:b	3.6 kw ( 8 m)	12.7 (1/2)	9.52 (3/8)	8
Wide tube Narrow tube	9 type:c	2.8 kw (18 m)	12.7 (1/2)	9.52 (3/8)	18
28.58 (1 1/8) 12 7 (1/2)	18 type:d	5.6 kw ( 6 m)	15.88(5/8)	9.52 (3/8)	6
	36 type:e	10.6 kw (10 m)	19.05(3/4)	9.52 (3/8)	10
9.52 (3/8)otal amou	nt		_	_	_

15.88(5/8)
9.52 (3/8)
25.4 (1/1)
11. Selecting Refrigerant Tubing Size and Calculating the Amount of Addition
12.7 (1/2)

15.88	(Bas)le 1-17		Unit: kw
9.52	10000	Rating o	apacity
9.52		Cooling	Heating
	1/2) 3/8) 25 type: a	7.3	8.0
15.88 9.52 (	(5/8)2 type: b 3/8)	3.6	4.2
19.05	(3/4)9 type: c	2.8	3.2
9.52 (	<sup>3/8</sup> 18 type: d	5.6	6.3
-	36 type: e	10.6	11.4



90 type
Main tube C

12

18 m 8 m

13 m

b 25 12 6 m

d e 18 The tubing size is selected and the amount of additional charge can be found refrigerant tubing sizes using the tubing system of each indoor unit.

Refrigerant amounts must be calculated for the amount of additional charge per 1m of

Table 1-18 Additional Refrigerant Charge

Liubing 2 Additional		4090			
1 X 2 length refrigerant		Total cooling capacity of the unit after the distribution joint	Wide tube	Narrow tube	①Tubii lengt
30 m Main tube 125 g/m 3,750 g	А	7.3 + 3.6 + 2.8 +5.6 + 10.6 = 29.9 kw	28.58 (1 1/8)	12.7 (1/2)	30
5 m	В	7.3 + 3.6 + 2.8 = 13.7  kw	19.05(3/4)	9.52 (3/8)	5
75 g/m	С	3.6 + 2.8 = 6.4  kW	15.88(5/8)	9.52 (3/8)	10
10 m 75 g/m	D	5.6 + 10.6 = 16.2 kw	25.4 (1)	12.7 (1/2)	20
20 m Distribution	25 type:a	7.3 kw (13 m)	15.88(3/8)	9.52 (3/8)	13
125 g/m branch 2,500 g	12 type:b	3.6 kw ( 8 m)	12.7 (1/2)	9.52 (3/8)	8
13 m	9 type:c	2.8 kw (18 m)	12.7 (1/2)	9.52 (3/8)	18
75 g/rh 8 m	18 type:d	5.6 kw ( 6 m)	15.88(5/8)	9.52 (3/8)	6
75 g/m	36 type:e	10.6 kw (10 m)	19.05(3/4)	9.52 (3/8)	10
18 m 75 g/m Total amount		_	_	-	

1,350 g

6 m

## 75 g/m1-11. Selecting Refrigerant Tubing Size and Calculating the Amount of Addition

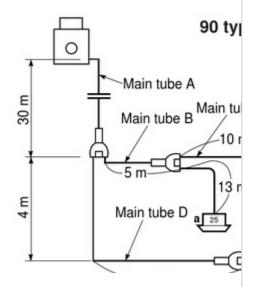
10 m

750 g

36 type: e

75 g/m	Table 1-17		Unit: kw
	Туре	Rating of	capacity
11,500		Cooling	Heating
c 9 10 m	25 type: a	7.3	8.0
375 g	12 type: b	3.6	4.2
750 g 975 g	9 type: c	2.8	3.2
600 g 450 g	18 type: d	5.6	6.3
430 9			1

10.6



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Air Conditioner Sanyo SPW-D253GH56 Service Manual

Split system (108 pages)

Air Conditioner Sanyo SPW-T253GH56 Service Manual

Split system (106 pages)

Air Conditioner Sanyo SPW-X253GH56 Service Manual

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2 and 3 pipe electric vrf systems (10 pages)

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SPW-XR254EH56 Connecting The Refrigerant Tubing

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SAP-CMRV3143GJH Charging Additional Refrigerant

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SPW-C0705DZH8 Increasing The Size Of The Refrigerant Tubing
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