## Tubing Size - Sanyo R410A Installation Instructions Manual

W-3way eco-i system air conditioner

```
2
3
4
5
Table Of Contents
6
7
8
9
10
11
12
13
14
15
```

Table of Contents







1 6 Tubing Cino							
1-6. Tubing Size							
Ta <u>ble 1-3 Main Tubing Size</u>	(LA)						
BTŲ/h							
(kW)							
Total system horsepower Combined outdoor units							
Suction tubing							
Discharge tubing							
Liquid tubing							
*1: If future extension is plann	ed, seleçt ti	he tubing d	iameter bas	sed on the	total horse	oower after	
ext <del>ension.</del>	·						
However extension is not poss	ible if the r	esylting tuk	ing size is t	two ranks h	nigher.		/
*2: The balance tube (outdoor	unit tube)	<del>liameter is</del>	<del>ø3/8" (ø9.5</del>		,		•
*3: Type 1 tubing should be used	for the réfri	igerant tube	s. /		/		
*4: <mark>If the length of the longest tu</mark>	<del>be (L1) exce</del>	eds 295 ft.	<del>(equivalent l</del>	<del>length), incr</del>	<del>ease the ma</del>	<del>iin tube (LM)</del>	size by 1

rank for the suction, discharge, and liquid			-				
*5: If the longest main tube leng	th (LM) exce	eds 164 ft.	, increase the	e main tube	size at the p	portion befor	e 164 ft.
by 1 rank for							Π
the suction tubes and discharg	1						
(For the portion that exceeds 16			1	<del>es (LA) liste</del>	ed in the tabl	<del>¢ above.)     </del>	
■ Size of tubing (LO) bet	1	l	1				
Select the size of tubing between	outdoor un	its based o	r the main to	bing size (	LA) as given	n the table	above.
Table 1-4 Main Tubing Size	After Dis	ribution	(LB, LC)				
Below BTU/h							
Total capacity	/			/,			
afte <mark>r distribution</mark>	, '	,				<u> </u>	
Over BTU/h	/	/		/			/
Suction tubing		· .	<b>+</b> .	·			· ·
Tubing size	/		/		/		
Discharge tubing	′						
Liquid tubing							
Below BTU/h							
Total capacity							
after distribution							
Over BTU/h Suction tubing							
Discharge tubing							
Tubing size							
Liquid tubing							
, ,	Tubina C		on Cina /				
Table 1-5 Outdoor Unit	Tubing C	onnection	on Size (				
BTU/h							
72,000							
(kW)							
(21.1)		N/I /	31311	مادر			OB
(019 05) *		-171-0	711U	rati:		IJīU	UH
Suction tubing		_	<u> </u>	L	$\lfloor \rfloor$		
Discharge							
(015,88)							
tubihg							
03/8" (09.52)							
Liqu <mark>id tubing</mark>							
Balance tubing							
72,000							
96,000					]		
144 000		_	<u> </u>	L			
(21.1)							
(28.1)							
(42.2)							
8							
10							
16							
8					]		
10				Q	Q		
8		<u> </u>			*		
8							
07/8"							

(o22.22) o5/8" o3/4" (o15.88)							
(019.05)							
03/8"							
01/2"							
(09 52)							
(012.7)							
24.200							
54.600 (2.5 hp)	/			/			
(6 hp)	/			/			
24.200	/	/		/			/
(2.5 hp)	/		/		/		
ø5/ <b>8</b> "	/		/		/		
ø3/4"							
(ø15.88)							
(ø19.05)							
ø1/2"							
ø5/8"							
(ø12.70) (ø15.88)							
ø3/8"							
ø3/8"							
ø3/8" (ø9.52)							
(ø9.52)							
(ø9.52) (ø9.52)							
(ø9.52)							
(ø9.52) (ø9.52) 258.000 334.400 (27 hp)		Мa		مادر	st i		on
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 h <del>p)</del>		· - —		<del>ials</del>		b <u>.</u> c	<del>on</del>
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 h <del>p)</del> 238.900		· - —				<b>b.</b> q	<del>o</del> n
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 h <del>p)</del> 238.900 258.000		· - —				<b>b.</b> 6	<del>O</del> n
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 h <del>p)</del> 238.900 258.000 (25 hp) (27 hp)		· - —				<b>b.</b> 6	<del>o</del> n
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) ø1-3/8"		· - —				<b>b.</b> 6	<del>O</del> n
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(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) ø1-3/8" ø1-3/8" (ø34.92)		· - —				b.6	<del>O</del> n
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(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) ø1-3/8" ø1-3/8" (ø34.92) (ø34.92) ø1-1/8"		· - —				<b>b</b> -6	<del>O</del> n
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) ø1-3/8" ø1-3/8"  ø1-3/8" (ø34.92) (ø34.92) (ø34.92)  ø1-1/8" (ø28.58) (ø28.58) (ø28.58)		· - —				<b>b.</b> 6	<del>O</del> n
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) ø1-3/8" ø1-3/8" (ø34.92) (ø34.92) ø1-1/8" ø1-1/8" ø1-1/8" (ø28.58) (ø28.58) ø3/4"		· - —				<b>b.</b> 6	:O-Pi
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) ø1-3/8" ø1-3/8" (ø34.92) (ø34.92) (ø34.92) (ø34.92) ø1-1/8" (ø28.58) (ø28.58) (ø28.58) ø3/4" ø3/4" (ø19.05)		· - —				<b>b.</b> 6	<del>O</del> n
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) Ø1-3/8" Ø1-3/8" (ø34.92) (ø34.92) Ø1-1/8" Ø1-1/8" Ø1-1/8" (ø28.58) (ø28.58) (ø28.58) (ø3/4" (ø19.05) (ø19.05)		· - —				<b>b.</b> 6	:O-Pi
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(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) ø1-3/8" ø1-3/8" (ø34.92) (ø34.92) (ø34.92) Ø1-1/8" (ø28.58) (ø28.58) (ø28.58) (ø3/4" (ø19.05) (ø19.05)  96,000 (28.1)		· - —				<b>b.</b> G	:O-Pi
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) ø1-3/8" ø1-3/8" (ø34.92) (ø34.92) (ø34.92) (ø34.92) ø1-1/8" (ø28.58) (ø28.58) (ø28.58) (ø3/4" (ø19.05) (ø19.05) 96,000 (28.1)  03/4" *		· - —				<b>b</b> .6	<del>O</del> n
(ø9.52) (ø9.52) 258.000 334.400 (27 hp) (35 hp) 238.900 258.000 (25 hp) (27 hp) ø1-3/8" ø1-3/8"  ø1-3/8" (ø34.92) (ø34.92)  ø1-1/8" (ø28.58) (ø28.58) (ø28.58) (ø3/4" (ø19.05) (ø19.05)  96,000 (28.1) o3/4" *		· - —				<b>b</b> -G	:O-Pi

Brazing connection o5/8" o3/4"								
(019.05)								
Brazing connection								
03/8" (09.52)								
Flare connection								
03/8" (09.52)								
Flare connection								
Unit: in. (mm)								
168,000								
192,000	/				/			
216,000							<u> </u>	
(49.2)	/	/			/			/,
(56.2)		,						<del>,                                    </del>
(63.3)	/			/		/		
18								
20								
10								
10								
8								
10								
o1-1/8"								
(028.58)								
07/8"								
(022.22)								
05/8"								
(015.88)								
102.400								
124.200								
85.300								
(9 hp)		JW	15	עובטע	بالديا	ساري	عسطا	
(11 hp)		i v		ļIJU	i CLI:	ФLI	<b>P-G</b>	
(13 hp)	 	_ _		L — — ·	L	_	$\perp$ $  \perp$	
102.400								
85.300		+						
54.600								
(9 hp)								
(11 hp) (6 hp)								
ø3/4"								
ø7/8 <u>"</u>								
ø1-1/8"						٦		
(ø19.05)								
(ø22.22)	 	- -		<del> </del>		-		
						_		
(ø28.58)								
ø5/8"						4		
ø3/4"								
ø3/4"		+				$\dashv$		
(ø15.88)								
(ø19 <del>.05)</del>		-		ı		_		
(ø19.05)					Q	Q		
ø3/8"								
ø3/8"								

ø1/2"									
(ø9.52)									
(ø9.52)									
(ø1 <del>2.70)</del>							T	Т	
-									
*1: The outdoor unit co	<del>onnectio</del>	<del>n tubing (L</del>	<del>)) is</del>						+
334.400									
determined by the total	al capac	ty of the ol	itdoo	r					
(35 hp)									
ø1-1/2"		The section of							+
units connected to the t (ø38.10)	ube ends	. The tubing				/,			
size is selected based or	n the tah	e of main	,					Τ	
ø1-1/8"	ii tile tab	/	/			/			/
tube sizes after the br	anch.	,			,		,		
(ø28.58)	a	/			/		/		
*2: If the total capacity	v of the i	ndoor units	con-						
ø3/4"	,								
nected to the tube ends	is differe	ent from the							
(ø19.05)									
total capacity of the o	utdoor u	nits, then th	ne						
_									
)									
main tube size is selecte	ed based	on the total							
A	ea basea	on the total							
D									
capacity of the outdoo	r units.								
(For LA, LB, and LF in pa	articular)								
2 2									
*1 If the size of tubing (LA			· N		100	ماد	. I	h	
it is recommended that th	<u>ie tubing d</u>	<u>liameter be</u>	-1-V	175	HHHH	tatt.		<del>1).</del> 6	<del>, OH</del>
larger than 7/8" (									
Ø			_ _						
*2 If the size of tubing (LA	•		_						
it is recommended that th	e tubing o	liameter be							
larger than									
1-1/8" ( Ø									
9									
Unit: Lin. (mm)									
240,000									
264,000			_ _		L — — .				
(70.3)									
(77. <mark>3)</mark>									
24									
26									
28									
8									
10							l		
10 8						Q	Q		
8									
10									

8							
8							
8							
01-3/8"							
(034.92)							
01-1/8"							
(028.58)							
03/4"							
(019.05)							
143.300							
162.400	,						
(15 hp)	/			//			
(17 <del>hp)</del>		,		,			
124.200	/	/		/			//
143.300	,		,		,		
(13 hp)	/		/		/		
(15 hp) Ø1-1/8"	<u> </u>		<u> </u>				
Ø1-1/8"							
(ø28.58)							
(ø28.58)							
ø7/8"							
ø7/8"							
(ø22.22)							
(ø22.22)							
Ø1/2"							
ø1/2"							
(ø12.70)							
(ø12.70) 22.22).							
ZZ.ZZ). Ø							
28.58).		N/I o	1011	عادا			On
Ø						Did	OH!
288 000		.	L	$\perp - \mid$	$  \downarrow$		
(84.3)							
30							+
10							
10							
10							
Unit: in. (mm)							
hp = horsepower 200,600							
238.900							
(21 hp)		_	L	Ll			
(25 hp)							
200.600		+					
162.400							
(17 hp)		1					
(21 hp)		<u></u>					
ø1-1/8"			1				
a alcon		I		I			
ø1-1/8"							
(ø28.58)				Λ	٥		
(ø28.58) (ø28.58)				l l	Q		
(ø28.58)				<u> </u>	Q		

(ø22.22) (ø28.58) ø5/8" ø5/ <del>8</del> "					
(ø28.58)					
ø5/8"					
ø5/ <del>8</del> "					
(ø15.88)					
(ø15.88) (ø1 <del>5.88)</del>					
' ' ' '		1	1	1	<b>'</b>

Table of Contents

Previous Page Next Page

Quick Links: Remote Controller Test Run Settings Meaning of Alarm Messages		

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Air Conditioner Sanyo PW-UMR184EXH56 Installation And Operation Manual

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<u>Air Conditioner Sanyo ECO-i AHX0752 Technical Data Manual</u>

(265 pages)

Air Conditioner Sanyo MINI ECO-i XHX1252 Service Manual & Test Run Service Manual

(190 pages)

Air Conditioner Sanyo ECO-i CHDZR07263 Series Service Manual

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SPW-XR254EH56 How To Process Tubing

Sanyo SPW-XR254EH56

C2432A Optional Copper Tubing Kit

Sanyo C2432A

SAP-CMRV3143GJH Tubing Installation Procedures

Sanyo SAP-CMRV3143GJH

SAP-CMR2428E For Tubing Installation Procedures

## This manual is also suitable for:

Xhx1252Xhx1852Xhx2452Xhx3652Xmhx1252Xmhx1852 ... Show all