

2-WAY FSV-EX ME2 Series SPACE SAVING COMBINATION MODEL

Appearance												
HP	8	10	12	14	16	18	20	22	24			
Model name	U-8ME2H7	U-10ME2H7	U-12ME2H7	U-14ME2H7	U-16ME2H7	U-18ME2H7	U-20ME2H7	U-10ME2H7 U-12ME2H7	U-12ME2H7 U-12ME2H7			
Power supply	380/400/415V/3-phase/50Hz 380/400V/3-phase/60Hz											
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	61.5	68.0	
	BTU/h	76,500	95,600	114,300	136,500	153,600	170,600	191,100	209,900	232,100		
EER / COP	Cooling	W/W	5.30	5.03	4.73	4.56	4.13	4.10	3.76	4.84	4.69	
	Heating	W/W	5.84	5.56	5.38	5.29	5.13	5.05	4.60	5.48	5.31	
Dimensions	H x W x D	mm	1,842 x 770 x 1,000	1,842 x 770 x 1,000	1,842 x 1,180 x 1,000	1,842 x 1,180 x 1,000	1,842 x 1,180 x 1,000	1,842 x 1,540 x 1,000	1,842 x 1,540 x 1,000	1,842 x 2,010 x 1,000	1,842 x 2,420 x 1,000	
Net weight		kg	210	210	270	315	315	375	375	480	540	
Electrical ratings	Cooling	Running current	A	7.14 / 6.78 / 6.54	9.62 / 9.14 / 8.81	11.8 / 11.2 / 10.8	15.3 / 14.5 / 14.0	18.4 / 17.5 / 16.8	20.6 / 19.6 / 18.9	24.6 / 23.4 / 22.5	21.4 / 20.4 / 19.6	24.2 / 23.0 / 22.2
		Power input	kW	4.23	5.57	7.08	8.77	10.9	12.2	14.9	12.7	14.5
	Heating	Running current	A	7.15 / 6.79 / 6.54	9.68 / 9.20 / 8.86	11.6 / 11.1 / 10.7	14.9 / 14.1 / 13.6	16.6 / 15.8 / 15.2	18.9 / 18.0 / 17.4	22.9 / 21.7 / 20.9	21.3 / 20.2 / 19.5	24.0 / 22.8 / 22.0
		Power input	kW	4.28	5.67	6.97	8.51	9.75	11.1	13.7	12.6	14.4
Starting current		A	1	1	1	2	2	2	2	2	2	
Air flow rate		m ³ /h	13,440	13,440	13,920	13,920	13,920	24,300	24,300	27,360	27,840	
		L/s	3,733	3,733	3,867	3,867	3,867	6,750	6,750	7,600	7,733	
Refrigerant amount at shipment		kg	5.6	5.6	8.3	8.3	8.3	9.5	9.5	13.9	16.6	
External static pressure		Pa	80	80	80	80	80	80	80	80	80	
Piping connections	Gas pipe	mm (inches)	Ø19.05 (Ø3/4)	Ø22.22 (Ø7/8)	Ø25.40 (Ø1)	Ø25.40 (Ø1)	Ø28.58 (Ø1-1/8)	Ø28.58 (Ø1-1/8)	Ø28.58 (Ø1-1/8)	Ø28.58 (Ø1-1/8)	Ø28.58 (Ø1-1/8)	
	Liquid pipe	mm (inches)	Ø9.52 (Ø3/8)	Ø9.52 (Ø3/8)	Ø12.70 (Ø1/2)	Ø12.70 (Ø1/2)	Ø12.70 (Ø1/2)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	Ø15.88 (Ø5/8)	
	Balance pipe	mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	
Ambient temperature operating range			Cooling: -10°C (DB)~ +52°C (DB). Heating: -25°C (WB)~ +18°C (WB)									
Sound pressure level	Normal mode	dB (A)	53.0	56.0	57.0	58.0	61.0	59.0	59.0	59.5	60.0	
	Silent mode (2)	dB (A)	48.0	51.0	52.0	53.0	56.0	54.0	54.0	54.5	55.0	
Sound power level	Normal mode	dB	74.0	77.0	78.0	79.0	82.0	80.0	80.0	80.5	81.0	

U-8ME2H7 U-10ME2H7	U-12ME2H7 U-14ME2H7 U-16ME2H7	U-14ME2H7 U-16ME2H7	U-16ME2H7 U-16ME2H7	U-18ME2H7 U-20ME2H7	U-20ME2H7 U-20ME2H7	U-22ME2H7 U-24ME2H7	U-24ME2H7 U-26ME2H7	U-26ME2H7 U-28ME2H7	U-28ME2H7 U-30ME2H7	U-30ME2H7 U-32ME2H7	U-32ME2H7 U-34ME2H7SP	U-34ME2H7SP U-36ME2H7SP	U-36ME2H7SP U-38ME2H7SP	U-38ME2H7SP U-40ME2H7SP	U-40ME2H7SP U-42ME2H7	U-42ME2H7 U-44ME2H7	U-44ME2H7 U-46ME2H7	U-46ME2H7 U-48ME2H7	U-48ME2H7 U-48ME2H7	U-48ME2H7 U-48ME2H7			
380/400/415V/3-phase/50Hz 380/400V/3-phase/60Hz																							
73.0	78.5	85.0	90.0	96.0	101.0	107.0	113.0	118.0	124.0	130.0	135.0	249,100	267,900	290,100	307,200	327,600	344,700	365,200	385,700	402,700	423,200	443,700	460,800
81.5	87.5	95.0	100.0	108.0	113.0	119.0	127.0	132.0	138.0	145.0	150.0	278,200	298,600	324,200	341,300	368,600	385,700	406,100	433,400	450,500	471,000	494,900	511,900
4.42	4.36	4.31	4.13	4.05	3.91	3.89	3.74	4.31	4.26	4.25	4.13	5.29	5.24	5.19	5.13	4.86	4.81	4.80	4.58	5.22	5.19	5.18	5.12
1,842 x 2,010 x 1,000	1,842 x 2,420 x 1,000	1,842 x 2,420 x 1,000	1,842 x 2,420 x 1,000	1,842 x 2,780 x 1,000	1,842 x 2,780 x 1,000	1,842 x 3,140 x 1,000	1,842 x 3,140 x 1,000	1,842 x 3,140 x 1,000	1,842 x 3,140 x 1,000	1,842 x 3,660 x 1,000	1,842 x 3,660 x 1,000	1,842 x 2,010 x 1,000	1,842 x 2,420 x 1,000	1,842 x 2,420 x 1,000	1,842 x 2,780 x 1,000	1,842 x 2,780 x 1,000	1,842 x 3,140 x 1,000	1,842 x 3,140 x 1,000	1,842 x 3,140 x 1,000	1,842 x 3,250 x 1,000	1,842 x 3,660 x 1,000	1,842 x 3,660 x 1,000	1,842 x 3,660 x 1,000
525	585	630	630	690	690	750	750	840	900	945	945	525	585	630	630	690	690	750	750	840	900	945	945
28.2 / 26.8 / 25.8	30.4 / 28.9 / 27.8	33.6 / 31.9 / 30.8	36.8 / 35.0 / 33.7	40.0 / 38.0 / 36.6	43.1 / 40.9 / 39.4	45.9 / 43.6 / 42.0	49.9 / 47.4 / 45.7	46.3 / 43.9 / 42.4	49.1 / 46.7 / 45.0	52.2 / 49.6 / 47.8	55.2 / 52.4 / 50.5	16.5	18.0	19.7	21.8	23.7	25.8	27.5	30.2	27.4	29.1	30.6	32.7
26.3 / 25.0 / 24.1	28.2 / 26.8 / 25.8	31.6 / 30.0 / 28.9	33.3 / 31.6 / 30.5	37.9 / 36.0 / 34.7	39.7 / 37.7 / 36.3	41.9 / 39.8 / 38.3	46.2 / 43.9 / 42.3	43.2 / 41.0 / 39.5	44.9 / 42.7 / 41.1	48.3 / 45.9 / 44.3	50.0 / 47.5 / 45.8	15.4	16.7	18.3	19.5	22.2	23.5	24.8	27.7	25.3	26.6	28.0	29.3
3	3	4	4	4	4	4	5	5	6	6	6	27,360	27,840	27,840	27,840	38,220	38,220	48,600	48,600	41,280	41,760	41,760	41,760
7,600	7,733	7,733	7,733	10,617	10,617	13,500	13,500	11,467	11,600	11,600	11,600	13.9	16.6	16.6	17.8	17.8	19.0	19.0	22.2	24.9	24.9	24.9	24.9
80	80	80	80	80	80	80	80	80	80	80	80	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)	Ø31.75 (Ø1-1/4)
Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)
Cooling: -10°C (DB)~ +52°C (DB). Heating: -25°C (WB)~ +18°C (WB)																							
62.5	62.5	63.0	64.0	61.5	63.5	62.0	65.0	65.0	65.0	65.0	66.0	57.5	57.5	58.0	59.0	56.5	58.5	57.0	57.0	60.0	60.0	60.0	61.0
83.5	83.5	84.0	85.0	82.5	84.5	83.0	86.0	86.0	86.0	86.0	87.0												

GLOBALREMARKS
 Rated conditions: Cooling Heating
 Indoor air temperature 27°C DB / 19°C WB 20°C DB
 Outdoor air temperature 35°C DB 7°C DB / 6°C WB
 These specifications are subject to change without notice.

Appearance												
HP	50	52	54	56	58	60	62	64	66			
Model name	U-14ME2H7 U-16ME2H7 U-20ME2H7	U-16ME2H7 U-16ME2H7 U-20ME2H7	U-14ME2H7 U-20ME2H7 U-20ME2H7	U-16ME2H7 U-20ME2H7 U-20ME2H7	U-18ME2H7 U-20ME2H7 U-20ME2H7	U-20ME2H7 U-20ME2H7 U-20ME2H7	U-14ME2H7 U-16ME2H7 U-16ME2H7	U-16ME2H7 U-16ME2H7 U-16ME2H7	U-10ME2H7 U-20ME2H7 U-20ME2H7	U-10ME2H7 U-20ME2H7 U-20ME2H7		
Power supply	380/400/415V/3-phase/50Hz 380/400V/3-phase/60Hz											
Capacity	Cooling	kW	140.0	145.0	151.0	156.0	162.0	174.0	180.0	185.0		
	BTU/h	477,800	494,900	515,400	532,400	552,900	573,400	593,900	614,300	631,400		
EER / COP	Cooling	W/W	4.09	3.99	3.95	3.87	3.86	4.23	4.13	4.00		
	Heating	W/W	5.00	4.95	4.79	4.76	4.73	4.60	5.16	5.11		
Dimensions	H x W x D	mm	1,842 x 4,020 x 1,000	1,842 x 4,020 x 1,000	1,842 x 4,380 x 1,000	1,842 x 4,380 x 1,000	1,842 x 4,740 x 1,000	1,842 x 4,740 x 1,000	1,842 x 4,900 x 1,000	1,842 x 4,900 x 1,000		
Net weight		kg	1,005	1,005	1,065	1,065	1,125	1,125	1,260	1,275		
Electrical ratings	Cooling	Running current	A	57.7 / 54.8 / 52.9	60.6 / 57.6 / 55.5	63.8 / 60.6 / 58.4	67.3 / 63.9 / 61.6	70.1 / 66.6 / 64.2	73.8 / 70.1 / 67.6	70.2 / 66.7 / 64.2	73.6 / 69.9 / 67.4	77.3 / 73.4 / 70.8
		Power input	kW	34.2	36.3	38.2	40.3	42.0	44.7	41.1	43.6	46.3
	Heating	Running current	A	52.9 / 50.3 / 48.5	54.5 / 51.8 / 49.9	59.6 / 56.6 / 54.6	62.1 / 59.0 / 56.9	65.0 / 61.7 / 59.5	68.6 / 65.2 / 62.8	64.5 / 61.3 / 59.1	67.1 / 63.7 / 61.4	72.1 / 68.5 / 66.0
		Power input	kW	31.0	32.3	35.3	36.8	38.5	41.1	37.8	39.3	42.7
Starting current		A	6	6	6	6	6	8	8	7		
Air flow rate		m ³ /h	52,140	52,140	62,520	62,520	72,900	72,900	55,680	55,680	75,960	
		L/s	14,483	14,483	17,366	17,366	20,250	20,250	15,467	15,467	21,100	
Refrigerant amount at shipment		kg	26.1	26.1	27.3	27.3	28.5	28.5	33.2	32.2	32.9	
External static pressure		Pa	80	80	80	80	80	80	80	80	80	
Piping connections	Gas pipe	mm (inches)	Ø38.10 (Ø1-1/2)	Ø38.10 (Ø1-1/2)	Ø38.10 (Ø1-1/2)	Ø38.10 (Ø1-1/2)	Ø38.10 (Ø1-1/2)	Ø38.10 (Ø1-1/2)	Ø41.28 (Ø1-5/8)	Ø41.28 (Ø1-5/8)	Ø41.28 (Ø1-5/8)	
	Liquid pipe	mm (inches)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	Ø19.05 (Ø3/4)	
	Balance pipe	mm (inches)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	Ø6.35 (Ø1/4)	
Ambient temperature operating range												

2-WAY FSV-EX ME2 Series **SPACE SAVING COMBINATION MODEL**

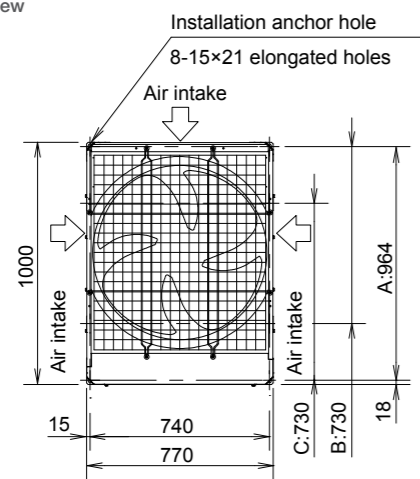


8 / 10 HP

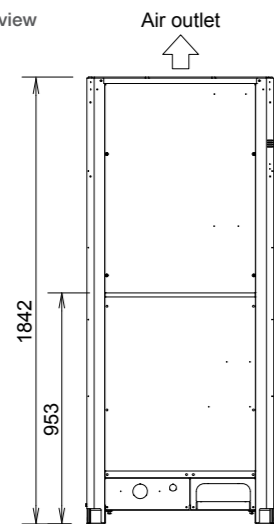
According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

- A: (Installation hole pitch) For removing tube forward
- B: (Installation hole pitch) For removing the downward
- C: (Installation hole pitch)

Top view



Front view



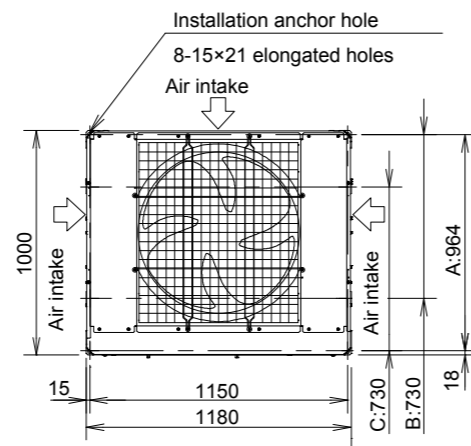
unit: mm

12 / 14 / 16 HP

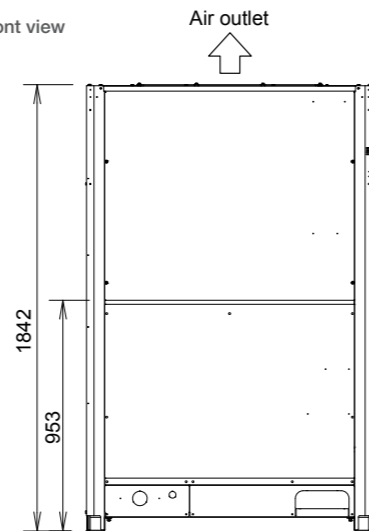
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- A: (Installation hole pitch) For removing tube forward
- B: (Installation hole pitch) For removing the downward
- C: (Installation hole pitch)

Top view



Front view



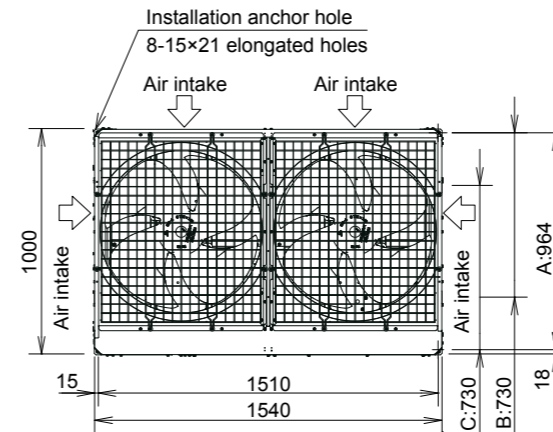
unit: mm

18 / 20 HP

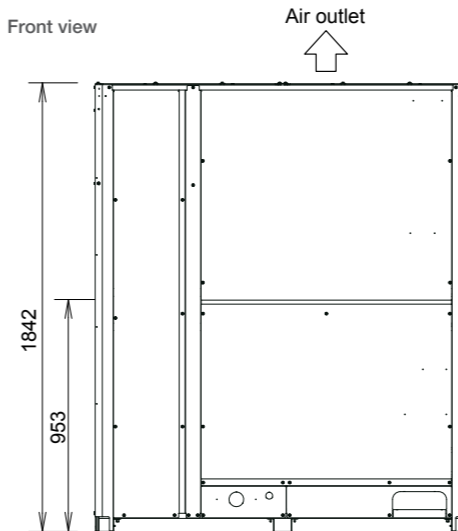
According to the installation site, you may choose the setting position in the depth direction of the anchor bolt from A, B or C.

- A: (Installation hole pitch) For removing tube forward
- B: (Installation hole pitch) For removing the downward
- C: (Installation hole pitch)

Top view



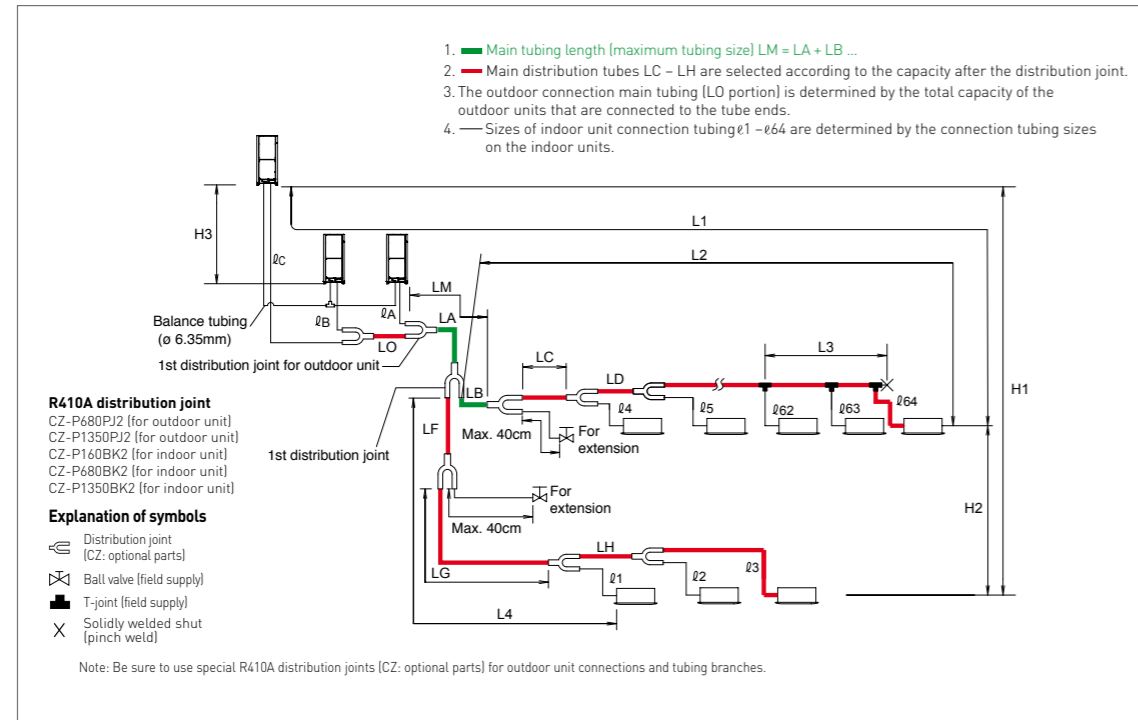
Front view



unit: mm

Piping Design

Select installation locations so that the lengths and sizes of refrigerant piping are within the allowable ranges shown in the figure below.



Ranges that apply to refrigerant piping lengths and to differences in installation heights

Items	Mark	Contents	Length (m)
Allowable tubing length	L1	Max. tubing length	Actual length $\leq 200^{*2}$ Equivalent length $\leq 210^{*2}$
	ΔL (L2-L4)	Difference between max. length and min. length from the 1st distribution joint	$\leq 50^{*5}$
	LM	Max. length of main tubing (at maximum size) * Even after 1st distribution joint, LM is allowed if at maximum tubing length.	— ^{*3}
	$\phi 1, \phi 2 - \phi 64$	Max. length of each distribution tube	$\leq 50^{*7}$
	$L1 + \phi 1 + \phi 2 - \phi 63 + \phi A + \phi B + LF + LG + LH$	Total max. tubing length including length of each distribution tube (only liquid tubing)	≤ 1000
Allowable elevation difference	$\phi A, \phi B + LO, \phi C + LO$	Maximum tubing length from outdoor's 1st distribution joint to each outdoor unit	≤ 10
	H1	When outdoor unit is installed higher than indoor unit	≤ 50
	H2	When outdoor unit is installed lower than indoor unit	≤ 40
Allowable length of joint tubing	H3	Max. difference between indoor units	$\leq 15^{*6}$
	H3	Max. difference between outdoor units	≤ 4
Allowable length of joint tubing	L3	T-joint tubing (field-supply); Max. tubing length between the first T-joint and solidly welded-shut end point	≤ 2

L = Length, H = Height
 NOTE
 1: The outdoor connection main tubing (LO portion) is determined by the total capacity of the outdoor units that are connected to the tube ends.
 2: If the longest tubing length (L1) exceeds 90 m (equivalent length), increase the sizes of the main tubes (LM) by 1 rank for gas tubes and liquid tubes. Use a field supply reducer. Select the tube size from the table of main tubing sizes (Table 3) and from the table of refrigerant tubing sizes (Table 8) on the second following page.
 3: If the longest main tubing length (LM) exceeds 50 m, increase the main tubing size at the portion before 50 m by 1 rank for the gas tubes. Use a field supply reducer. Determine the length less than the limitation of allowable maximum tubing length. For the portion that exceeds 50 m, set based on the main tubing size (LA) listed in Table 3.
 4: If the size of the existing tubing is already larger than the standard tubing size, it is not necessary to further increase the size.
 * If the existing tubing is used, and the amount of on-site refrigerant charge exceeds the value listed below, then change the size of the tubing to reduce the amount of refrigerant.
 Total amount of refrigerant for the system with 1 outdoor unit: 50 kg
 Total amount of refrigerant for the system with 2 outdoor units: 80 kg
 Total amount of refrigerant for the system with 3 outdoor units or 4 outdoor units: 105 kg
 5: When the tubing length exceeds 40 m, increase a longer liquid or gas tubing by 1 rank. Refer to the Technical Data for the details.
 6: If the total distribution tubing length exceeds 500m, maximum allowable elevation difference (H2) between the indoor units is calculated by the following formula. Make sure the indoor unit's actual elevation difference should fall within the figure calculated as follows.
 Unit of account (meter): $15 \times (2 - \text{total tubing length(m)} \div 500)$
 7: If any of the tubing length exceeds 30m, increase the size of the liquid and gas tubes by 1 rank.

Necessary amount of additional refrigerant charge per outdoor unit

U-8ME2H7(E)	U-10ME2H7(E)	U-12ME2H7(E)	U-14ME2H7(E)	U-16ME2H7(E)	U-18ME2H7(E)	U-20ME2H7(E)
5.5kg	5.5kg	7.0 kg	7.0 kg	7.0 kg	7.0 kg	7.0 kg

System limitations

Max. No. allowable connected outdoor units	4 ^{*2}
Max. capacity allowable connected outdoor units	224 kW (80 HP)
Max. connectable indoor units	64 ^{*1}
Max. allowable indoor/outdoor capacity ratio	50-130 % ^{*3}

*1: In the case of 38 HP or smaller units, the number is limited by the total capacity of the connected indoor units.
 *2: Up to 4 units can be connected if the system has been extended.
 *3: If the following conditions are satisfied, the effective range is above 130 % and below 200 %.
 i) Obey the limited number of connectable indoor units.
 ii) The lower limit of operating range for heating outdoor temperature is limited to -10°CWB (standard -25°CWB).
 iii) Simultaneous operation is limited to less than 130 % of connectable indoor units.

Additional refrigerant charge

Liquid tubing size mm (inches)	Amount of refrigerant charge/m (g/m)
$\phi 6.35$ ($\phi 1/4$)	26
$\phi 9.52$ ($\phi 3/8$)	56
$\phi 12.7$ ($\phi 1/2$)	128
$\phi 15.88$ ($\phi 5/8$)	185
$\phi 19.05$ ($\phi 3/4$)	259
$\phi 22.22$ ($\phi 7/8$)	366
$\phi 25.4$ ($\phi 1$)	490

Refrigerant piping (Existing piping can be used.)

High Efficiency Combination Model

Piping size (mm)			
Material Temper - O	Material Temper - 1/2 H, H		
$\phi 6.35$	t 0.8	$\phi 22.22$	t 1.0
$\phi 9.52$	t 0.8	$\phi 25.4$	t 1.0
$\phi 12.7$	t 0.8	$\phi 28.58$	t 1.0
$\phi 15.88$	t 1.0	$\phi 31.75$	t 1.1
$\phi 19.05$	t 1.2	$\phi 38.1$	over t 1.35
		$\phi 41.28$	over t 1.45
		$\phi 44.45$	over t 1.55

Space Saving Combination Model

Piping size (mm)			
Material Temper - O	Material Temper - 1/2 H, H		
$\phi 6.35$	t 0.8	$\phi 22.22$	t 1.0
$\phi 9.52$	t 0.8	$\phi 25.4$	t 1.0
$\phi 12.7$	t 0.8	$\phi 28.58$	t 1.0
$\phi 15.88$	t 1.0	$\phi 31.75$	t 1.1
$\phi 19.05$	t 1.2	$\phi 38.1$	over t 1.35
		$\phi 41.28$	over t 1.45
		$\phi 44.45$	over t 1.55
		$\phi 50.8$	over t 1.8

* When bending the tubes, use a bending radius that is at least 4 times the outer diameter of the tubes. In addition, take sufficient care to avoid crushing or damaging the tubes when bending them.



Refrigerant Branch Pipes (optional accessories) for 2-WAY ME2 Series

Optional Distribution Joint Kits

See the installation instructions packaged with the distribution joint kit for the installation procedure.

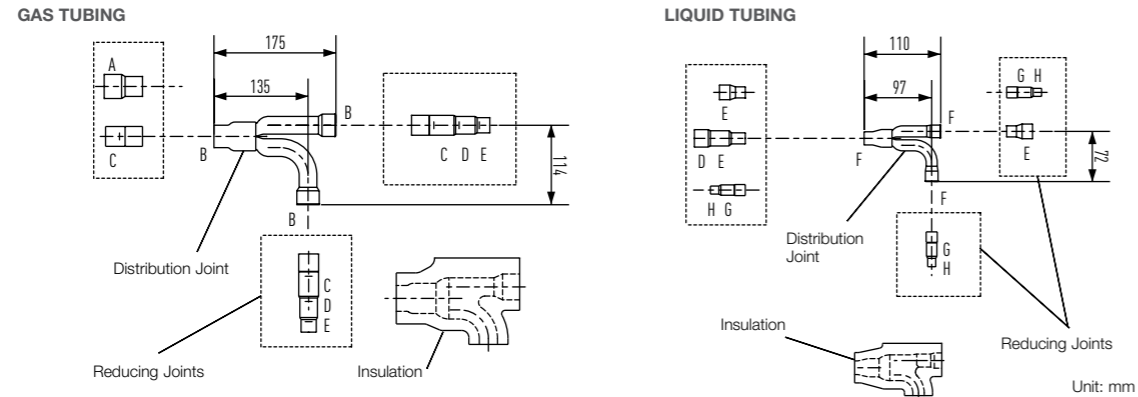
* In case the total capacity of indoor units connected after distribution exceeds the total capacity of the outdoor units, select the distribution tubing size for the total capacity of the outdoor units.

Model name	Cooling capacity after distribution	Remarks
1. CZ-P680PJ2	68.0 kW or less	For outdoor unit
2. CZ-P1350PJ2	more than 68.0 kW	For outdoor unit
3. CZ-P160BK2	22.4 kW or less *	For indoor unit
4. CZ-P680BK2	68.0 kW or less *	For indoor unit
5. CZ-P1350BK2	more than 68.0 kW *	For indoor unit

Tubing size (with thermal insulation)

1. CZ-P680PJ2

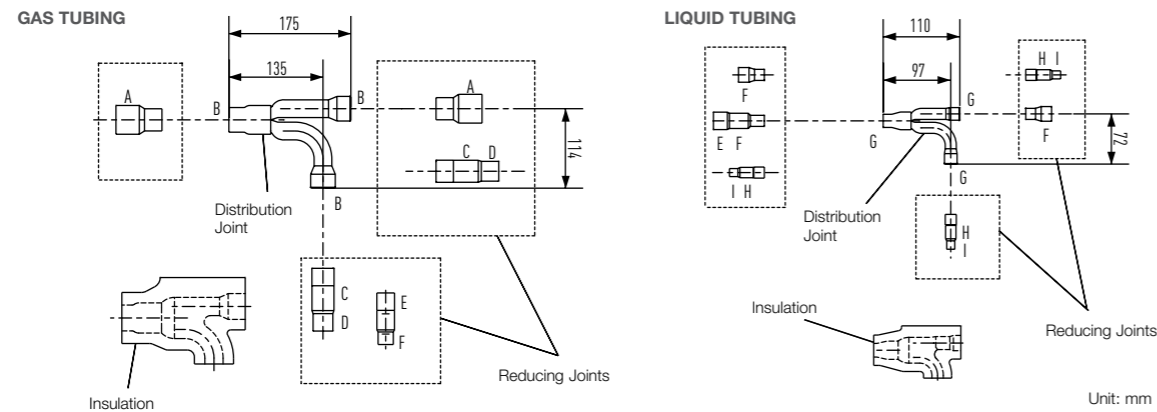
For outdoor unit (Capacity after distribution joint is 68.0 kW or less.)



Size of connection point on each part (Shown are inside diameters of tubing)								
Size	Part A	Part B	Part C	Part D	Part E	Part F	Part G	Part H
Dimension (mm)	ø31.75	ø28.58	ø25.40	ø22.22	ø19.05	ø15.88	ø12.70	ø9.52
Dimension (inches)	Ø1-1/4	Ø1-1/8	Ø1	Ø7/8	Ø3/4	Ø5/8	Ø1/2	Ø3/8

2. CZ-P1350PJ2

For outdoor unit (Capacity after distribution joint is more than 68.0 kW.)

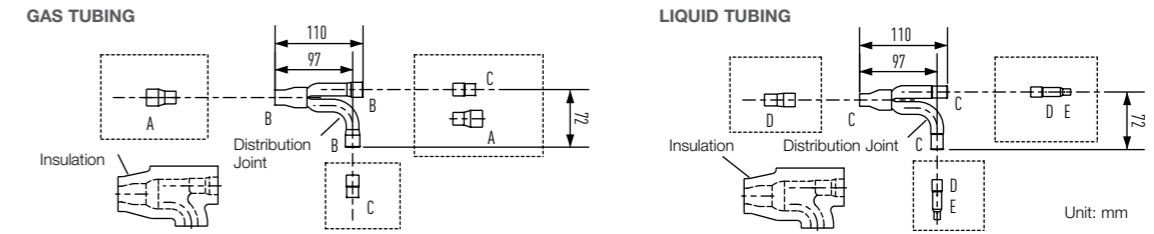


Size of connection point on each part (Shown are inside diameters of tubing)									
Size	Part A	Part B	Part C	Part D	Part E	Part F	Part G	Part H	Part I
Dimension (mm)	ø38.10	ø31.75	ø28.58	ø25.40	ø22.22	ø19.05	ø15.88	ø12.70	ø9.52
Dimension (inches)	Ø1-1/2	Ø1-1/4	Ø1-1/8	Ø1	Ø7/8	Ø3/4	Ø5/8	Ø1/2	Ø3/8

* If the tube diameter is more than ø38.1, use field-supply reducer.

3. CZ-P160BK2

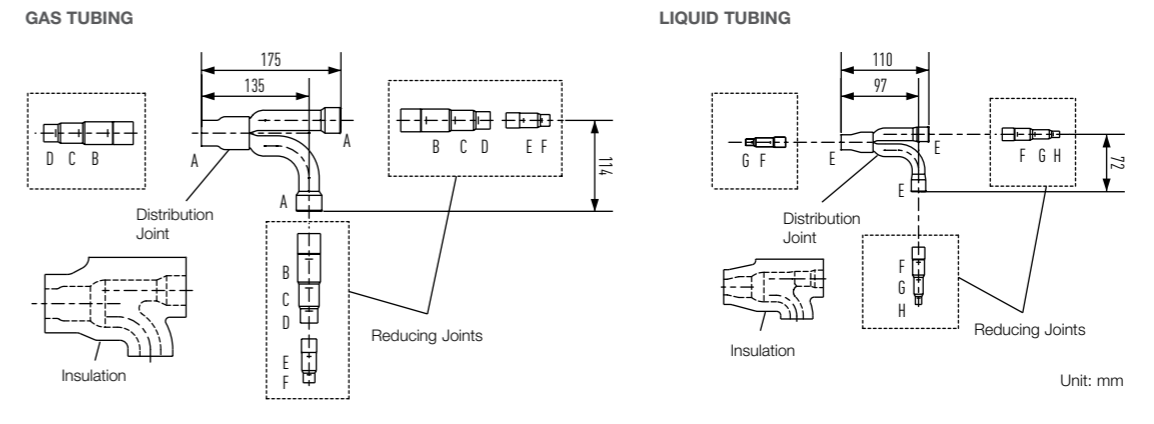
Use: For indoor unit (Capacity after distribution joint is 22.4 kW or less.)*



Size of connection point on each part (Shown are inside diameters of tubing)					
Size	Part A	Part B	Part C	Part D	Part E
Dimension (mm)	Ø19.05	Ø15.88	Ø12.70	Ø9.52	Ø6.35
Dimension (inches)	Ø3/4	Ø5/8	Ø1/2	Ø3/8	Ø1/4

4. CZ-P680BK2

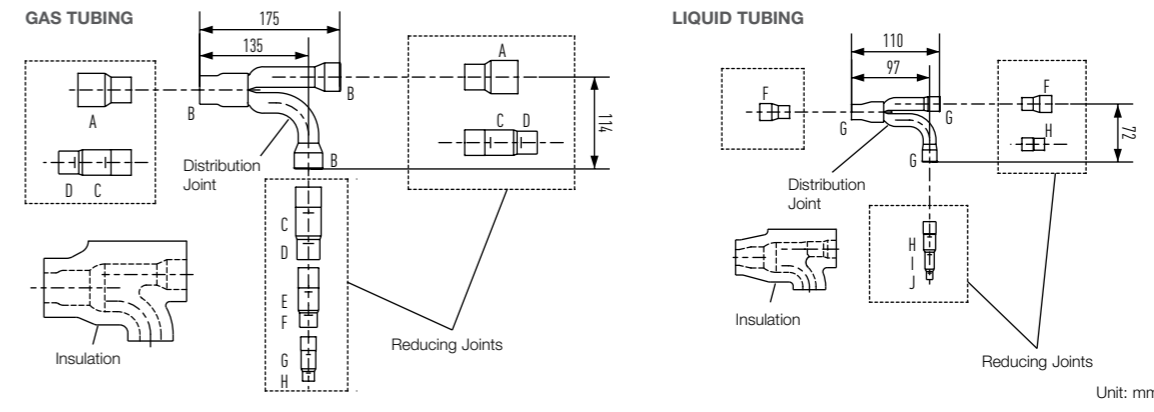
Use: For indoor unit (Capacity after distribution joint is more than 22.4 kW and no more than 68.0 kW.)*



Size of connection point on each part (Shown are inside diameters of tubing)								
Size	Part A	Part B	Part C	Part D	Part E	Part F	Part G	Part H
Dimension (mm)	Ø28.58	Ø25.40	Ø22.22	Ø19.05	Ø15.88	Ø12.70	Ø9.52	Ø6.35
Dimension (inches)	Ø1-1/8	Ø1	Ø7/8	Ø3/4	Ø5/8	Ø1/2	Ø3/8	Ø1/4

5. CZ-P1350BK2

Use: For indoor unit (Capacity after distribution joint is more than 68.0 kW.)*



Size of connection point on each part (Shown are inside diameters of tubing)										
Size	Part A	Part B	Part C	Part D	Part E	Part F	Part G	Part H	Part I	Part J
Dimension (mm)	Ø38.10	Ø31.75	Ø28.58	Ø25.40	Ø22.22	Ø19.05	Ø15.88	Ø12.70	Ø9.52	Ø6.35
Dimension (inches)	Ø1-1/2	Ø1-1/4	Ø1-1/8	Ø1	Ø7/8	Ø3/4	Ø5/8	Ø1/2	Ø3/8	Ø1/4

*If the tube diameter is more than ø38.1, use field-supply reducer.

* In case the total capacity of indoor units connected after distribution exceeds the total capacity of the outdoor units, select the distribution tubing size for the total capacity of the outdoor units.