CITY MULTI® Model: PUHY-EP264TSNU-A-TH(-BS)

Job Name:

Schedule Reference: | Date:

UNIT OPTION

- ☐ Standard Model PUHY-EP264TSNU-A-TH
- ☐ Seacoast (BS) Model PUHY-EP264TSNU-A-TH-BS

Minimum Operating Temperature
Heating (Outdoor): -25°F (-32°C) WB
Below -22°F (-30°C) WB, an auxiliary heating source is highly recommended.

ACCESSORIES

- ☐ Snow/Wind Guards - (See seperate submittal)
- ☐ Panel Heater - (PAC-PH01EHYU-E) (x1)
- ☐ Panel Heater - (PAC-PH02EHYU-E) (x2)

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s). Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.

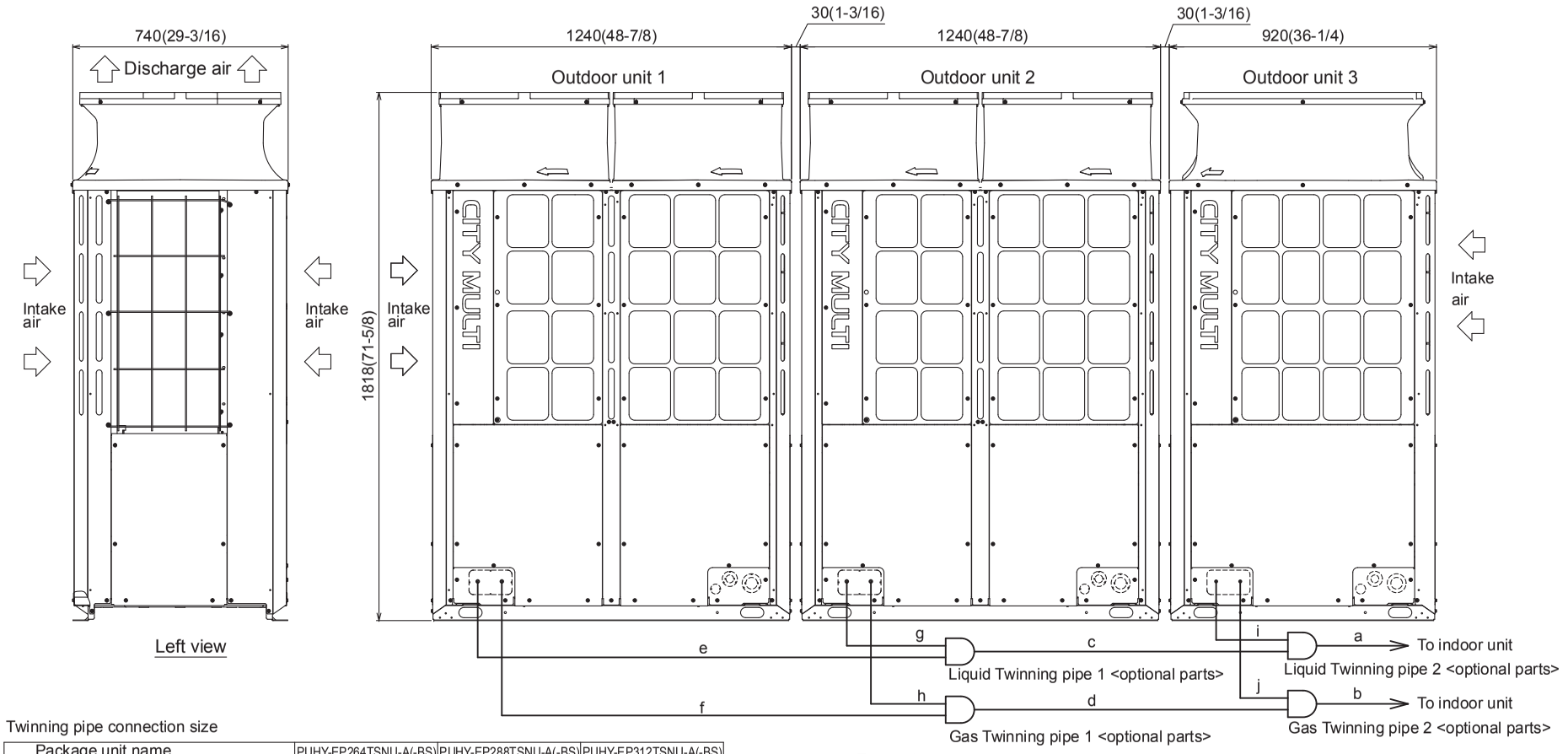
Outdoor Model				PUHY-EP264TSNU-A (-BS)	
Indoor Model				Non-Ducted	Ducted
Power source				3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1 (Nominal)			BTU/h	264,000	
			kW	77.4	
	(208-230)	Power input	kW	19.61	
		Current input	A	60.4-54.6	
	(Rated)		BTU/h	252,000	
			kW	73.9	
	(208-230)	Power input	kW	21.78	21.27
		Current input	A	67.1-60.7	65.5-59.3
Temp. range of cooling		Indoor	W.B.	59~75°F (15~24°C)	
		Outdoor	D.B.	23~126°F (-5~52°C)	
Heating capacity *2 (Nominal)			BTU/h	296,000	
			kW	86.8	
		Power input	kW	22.13	
	(208-230)	Current input	A	68.2-61.7	
	(Rated)		BTU/h	282,000	
			kW	82.6	
		Power input	kW	20.49	20.21
	(208-230)	Current input	A	63.1-57.1	62.3-56.3
Temp. range of heating		Indoor	D.B.	59~81°F (15~27°C)	
		Outdoor	W.B.	-13~60°F (-25~15.5°C)	
Indoor unit connectable		Total capacity		50~130% of outdoor unit capacity	
		Model/Quantity		P04~P96/2~50	
Sound power level (measured in anechoic room) *3			dB <A>	80.0-82.0	
Refrigerant piping diameter		Liquid pipe	in. (mm)	3/4 (19.05) Brazed	
		Gas pipe	in. (mm)	1-3/8 (34.93) Brazed	

Set Model

Model			PUHY-EP96TNU-A (-BS)	PUHY-EP96TNU-A (-BS)	PUHY-EP72TNU-A (-BS)
Minimum Circuit Ampacity (*)		A	44-40	44-40	32-29
Maximum Overcurrent Protection (*)		A	70-60	70-60	50-45
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 1
	Airflow rate	cfm	6,700	6,700	6,000
		m3/min	190	190	170
	Control, Driving mechanism		Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	0.46+0.46	0.46+0.46	0.92
*4	External static press.		0 in.WG (0 Pa)	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity		Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method		Inverter	Inverter	Inverter
	Motor output	kW	5.4 x 1	5.4 x 1	3.6 x 1
	Case heater	kW	-	-	-
	Lubricant		MEL32	MEL32	MEL32
External finish			Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 3Y 7.8/1.1 or similar>
External dimension H x W x D		in.	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 48-7/8 x 29-3/16	71-5/8 x 36-1/4 x 29-3/16
		mm	1,818 x 1,240 x 740	1,818 x 1,240 x 740	1,818 x 920 x 740
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa(601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)		Over-current protection	Over-current protection	Over-current protection
	Fan motor		-	-	
Refrigerant	Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)	R410A x 14 lbs + 5 oz (6.5 kg)
	Control		LEV and HIC circuit		
Net weight		lbs (kg)	622 (282)	622 (282)	512 (232)
Heat exchanger			Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube	Salt-resistant cross fin & aluminium tube
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed	3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed	7/8 (22.2) Brazed	7/8 (22.2) Brazed
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)		
Optional parts			Outdoor Twinning kit: CMY-Y300CBK2 Joint: CMY-Y102SS/102LS-G2,CMY-Y202S/302S-G2 Header: CMY-Y104/108/1010C-G		

Notes:
1. Cooling conditions (Test conditions are based on AHRI 1230)
   Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)
2. Heating conditions (Test conditions are based on AHRI 1230)
   Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)
3. Cooling mode/Heating mode
4. External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).

Specifications are subject to change without notice.



Twinning pipe connection size

Package unit name			PUHY-EP264TSNU-A(-BS)	PUHY-EP288TSNU-A(-BS)	PUHY-EP312TSNU-A(-BS)
Component unit name	Outdoor unit 1		PUHY-EP96TNU-A(-BS)	PUHY-EP120TNU-A(-BS)	PUHY-EP120TNU-A(-BS)
	Outdoor unit 2		PUHY-EP96TNU-A(-BS)	PUHY-EP96TNU-A(-BS)	PUHY-EP120TNU-A(-BS)
	Outdoor unit 3		PUHY-EP72TNU-A(-BS)	PUHY-EP72TNU-A(-BS)	PUHY-EP72TNU-A(-BS)
Outdoor Twinning Kit(optional parts)			CMY-Y300CBK2		
Indoor unit~Twinning pipe 2	Liquid	a	ø19.05(3/4)		
	Gas	b	ø34.93(1-3/8)		
Twinning pipe 1~Twinning pipe 2	Liquid	c	ø19.05(3/4)		
	Gas	d	ø34.93(1-3/8)		

	Unit model	Liquid	Gas
		e or g or i	f or h or j
Twinning pipe~Outdoor unit	EP72	ø9.52(3/8)	ø22.2(7/8)
	EP96	ø9.52(3/8)	ø22.2(7/8)
	EP120	ø12.7(1/2)	ø28.58(1-1/8)

Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
Be sure to see the Installation Manual for details of Twinning pipe installation.
3. The pipe section before the Twinning pipe (section "a"and "b"in the figure) must have at least 500mm(19-11/16) of straight section (*including the straight pipe that is supplied with the Twinning pipe).
4. Only use the Twinning pipe by Mitsubishi (optional parts).

Unit: mm (in.)

Module: PUHY-EP72TNU-A-TH(-BS) - DIMENSIONS

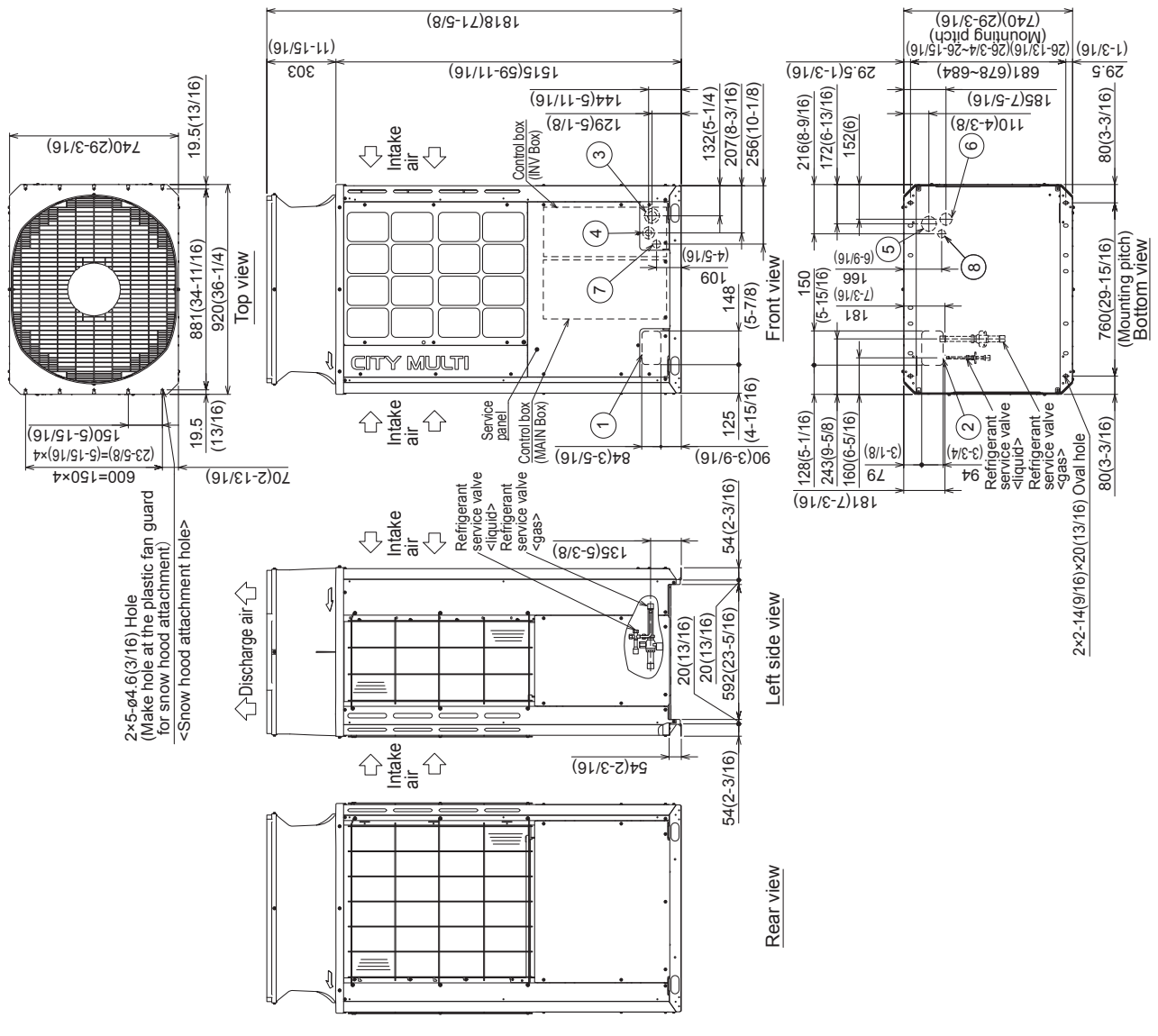
Unit: mm (in.)

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
EP72	ø9.52(3/8) Brazed	ø22.2(7/8) Brazed	ø9.52(3/8)	ø22.2(7/8)

NO.	Usage		Specifications
①	For pipes	Front through hole	148(5-7/8) × 84(3-5/16) Knockout hole
②		Bottom through hole	150(5-15/16) × 94(3-3/4) Knockout hole
③	For wires	Front through hole	ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole
④		Front through hole	ø43.7(1-3/4) or ø22.2(7/8) Knockout hole
⑤		Bottom through hole	ø65(2-9/16) Knockout hole
⑥		Bottom through hole	ø52(2-1/16) Knockout hole
⑦	For transmission cables	Front through hole	ø34(1-3/8) Knockout hole
⑧		Bottom through hole	ø34(1-3/8) Knockout hole



Specifications are subject to change without notice.

Module: PUHY-EP96TNU-A-TH(-BS) - DIMENSIONS

Unit: mm (in.)

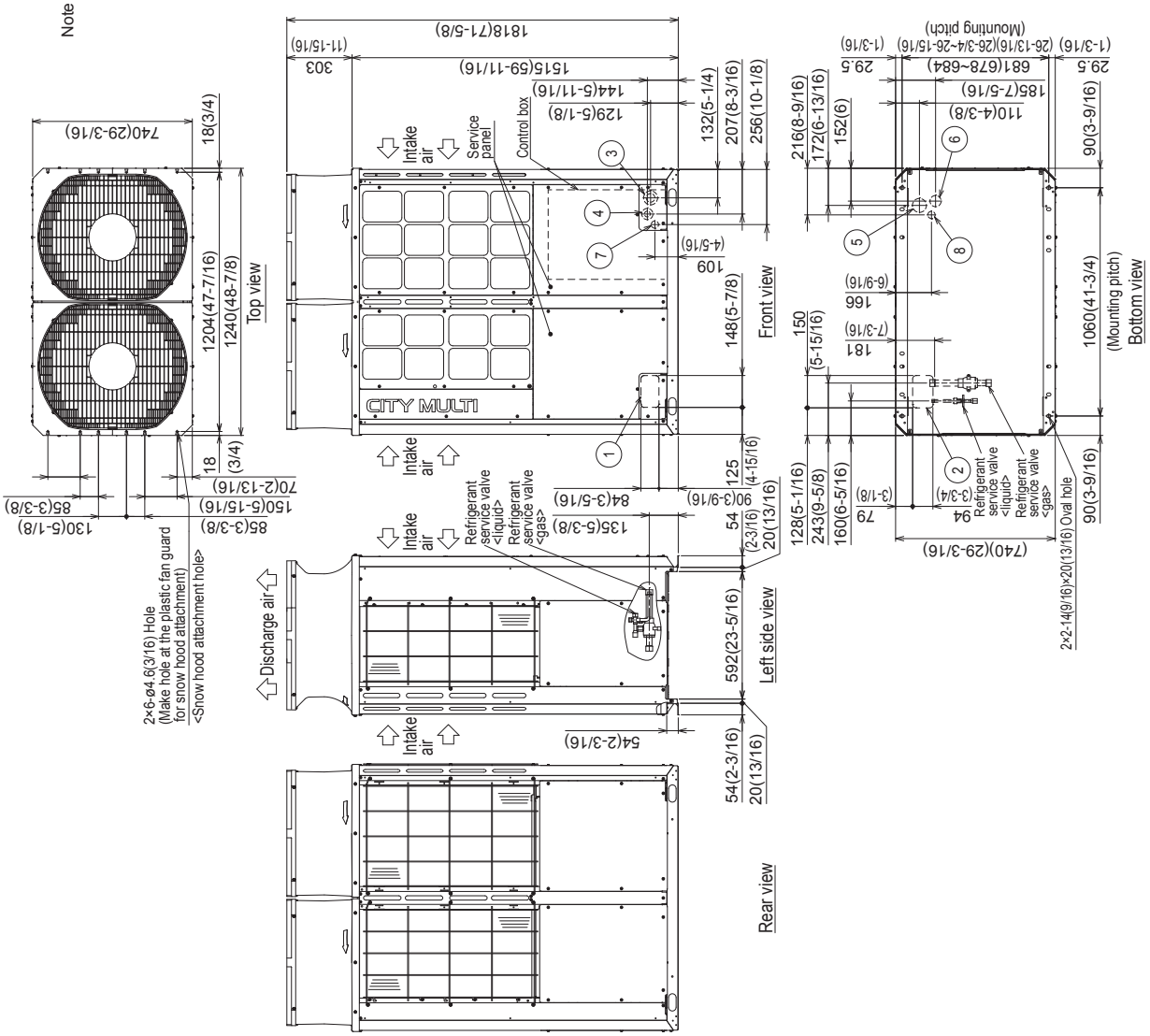
Note 1.Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2.At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	Liquid	Gas	Liquid	Gas
EP96	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,*3	ø22.2(7/8) Brazed*1,*2	ø12.7(1/2)	ø28.58(1-1/8)
EP120	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,*2,*4			
EP144	ø12.7(1/2) Brazed	ø28.58(1-1/8) Brazed		

*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.
*2 Indicates dimensions and connection specifications in the case the unit is used in combination with other outdoor units.
*3 Furthest piping length (OU from IU)≥90m
*4 Furthest piping length (OU from IU)≥40m

NO.	Usage		Specifications
①	For pipes	Front through hole	148(5-7/8) × 84(3-5/16) Knockout hole
②		Bottom through hole	150(5-15/16) × 94(3-3/4) Knockout hole
③	For wires	Front through hole	ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole
④		Front through hole	ø43.7(1-3/4) or ø22.2(7/8) Knockout hole
⑤		Bottom through hole	ø65(2-9/16) Knockout hole
⑥		Bottom through hole	ø52(2-1/16) Knockout hole
⑦	For transmission cables	Front through hole	ø34(1-3/8) Knockout hole
⑧		Bottom through hole	ø34(1-3/8) Knockout hole



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