

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-EP312TSNU-A-TH

Seacoast (BS) Model PUHY-EP312TSNU-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 separate 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-EP312TSNU-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	312,000		
			kW	91.4		
(208-230)	Power input	kW	24.33			
	Current input	A	75.0-67.8			
(Rated)		BTU/h	298,000			
		kW	87.3			
(208-230)	Power input	kW	29.62	27.65		
	Current input	A	91.3-82.6	85.2-77.1		
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	350,000		
			kW	102.6		
(208-230)	Power input	kW	27.37			
	Current input	A	84.4-76.3			
(Rated)		BTU/h	334,000			
		kW	97.9			
(208-230)	Power input	kW	25.35	25.02		
	Current input	A	78.1-70.7	77.1-69.7		
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		Total capacity		50~130% of outdoor unit capacity		
connectable		Model/Quantity		P04~P96/2~50		
Sound power level (measured in anechoic room) *3			dB <A>	83.5/85.0		
Refrigerant		Liquid pipe	in. (mm)	3/4 (19.05) Brazed		
piping diameter		Gas pipe	in. (mm)	1-3/8 (34.93) Brazed		

Set Model

Model			PUHY-EP120TNU-A (-BS)	PUHY-EP120TNU-A (-BS)	PUHY-EP72TNU-A (-BS)
Minimum Circuit Ampacity (*)		A	55-49	55-49	32-29
Maximum Overcurrent Protection (*)		A	90-80	90-80	50-45
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	Propeller fan x 1
	Airflow rate	cfm	7,750	7,750	6,000
		m3/min	220	220	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	7.4 x 1	7.4 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)	633 (287)	633 (287)	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)	1/2 (12.7) Brazed	1/2 (12.7) Brazed	3/8 (9.52) Brazed
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) 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:

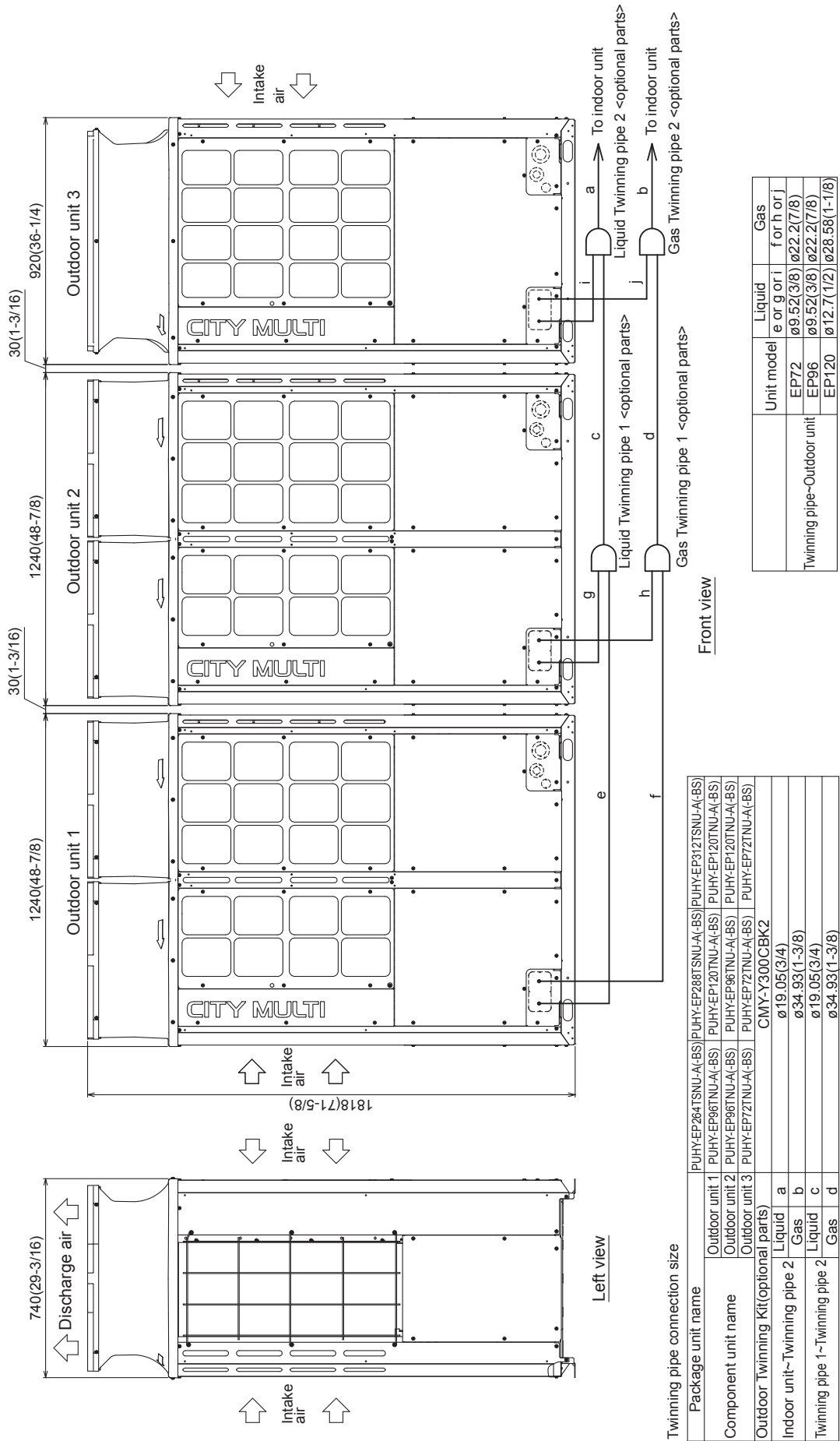
- Cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F DB/67°F WB, (26.7°C DB/19.4°C WB), Outdoor: 95°F DB, (35°C DB)
- Heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F DB, (21.1°C DB), Outdoor: 47°F DB/43°F WB, (8.3°C DB/6.1°C WB)
- Cooling mode/Heating mode
- External static pressure option is available (0.12 in.WG, 0.24 in.WG/30 Pa, 60 Pa, 80 Pa).

Specifications are subject to change without notice.

* All electrical work shall comply with National (CEC) and local codes and regulations.

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Module: PUHY-EP312TSNU-A-TH(-BS) - DIMENSIONS



Unit: mm (in.)

Specifications are subject to change without notice.

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twining pipes should not be tilted more than 15 degrees from the horizontal plane.
- Be sure to see the Installation Manual for details of Twining pipe installation.
3. The pipe section before the Twining 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 Twining pipe).
4. Only use the Twining pipe by Mitsubishi (optional parts).

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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.

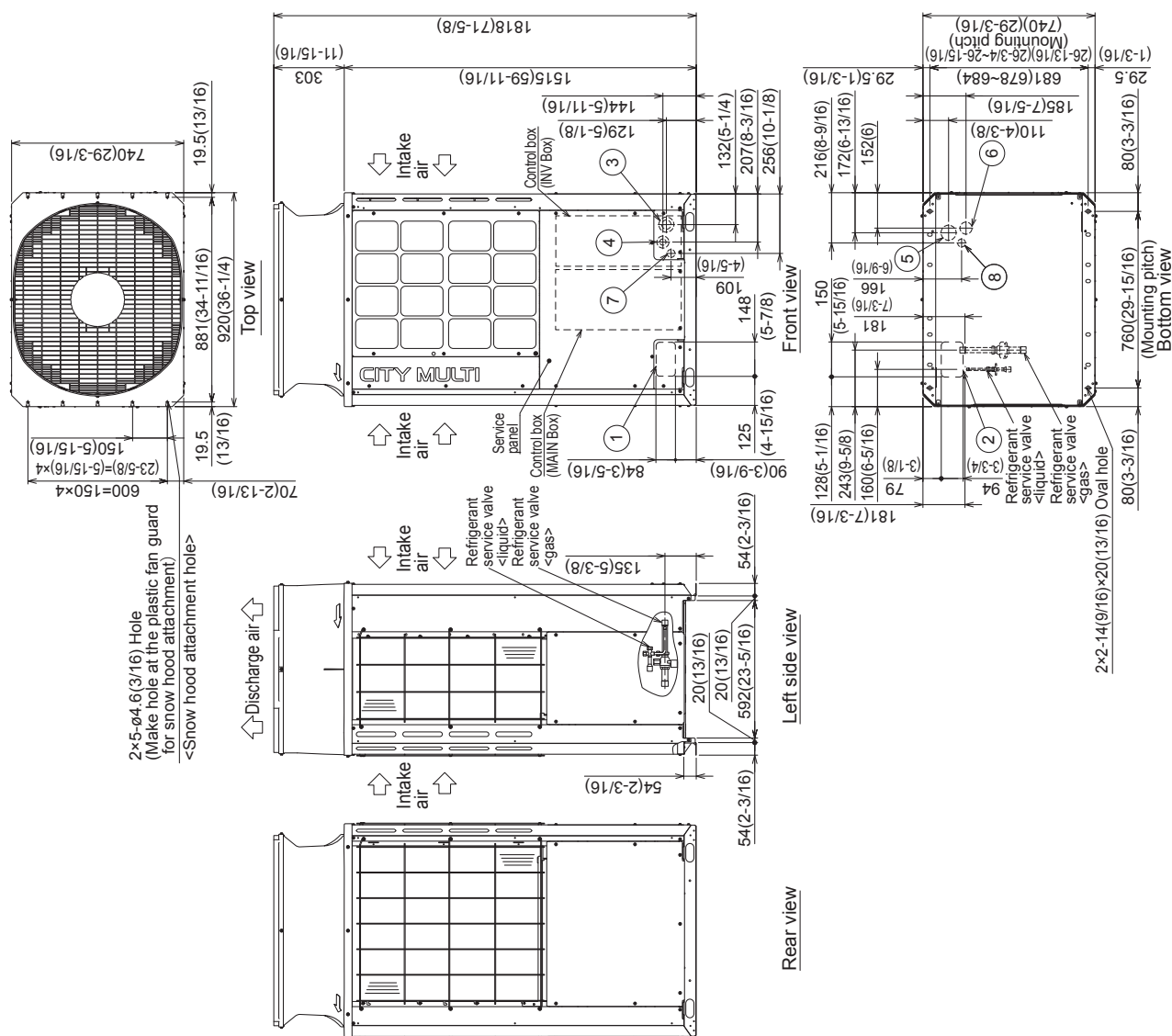
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C (248°F).

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)

Issues

NO.	Usage	Specifications
①	For pipes	Front through hole $148(5-7/8) \times 84(3-5/16)$ Knockout hole
②		Bottom through hole $150(5-15/16) \times 94(3-3/4)$ Knockout hole
③		Front through hole $\phi 62(7/2-1/2)$ or $\phi 34(1-3/8)$ Knockout hole
④	For wires	Front through hole $\phi 43(1-3/4)$ or $\phi 22(7/16)$ Knockout hole
⑤		Bottom through hole $\phi 65(2-9/16)$ Knockout hole
⑥		Bottom through hole $\phi 52(2-1/16)$ Knockout hole
⑦	For transmission cables	Front through hole $\phi 34(1-3/8)$ Knockout hole
⑧		Bottom through hole $\phi 34(1-3/8)$ Knockout hole



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Module: PUHY-EP120TNU-A-TH(-BS) - DIMENSIONS

Unit: mm (in.)

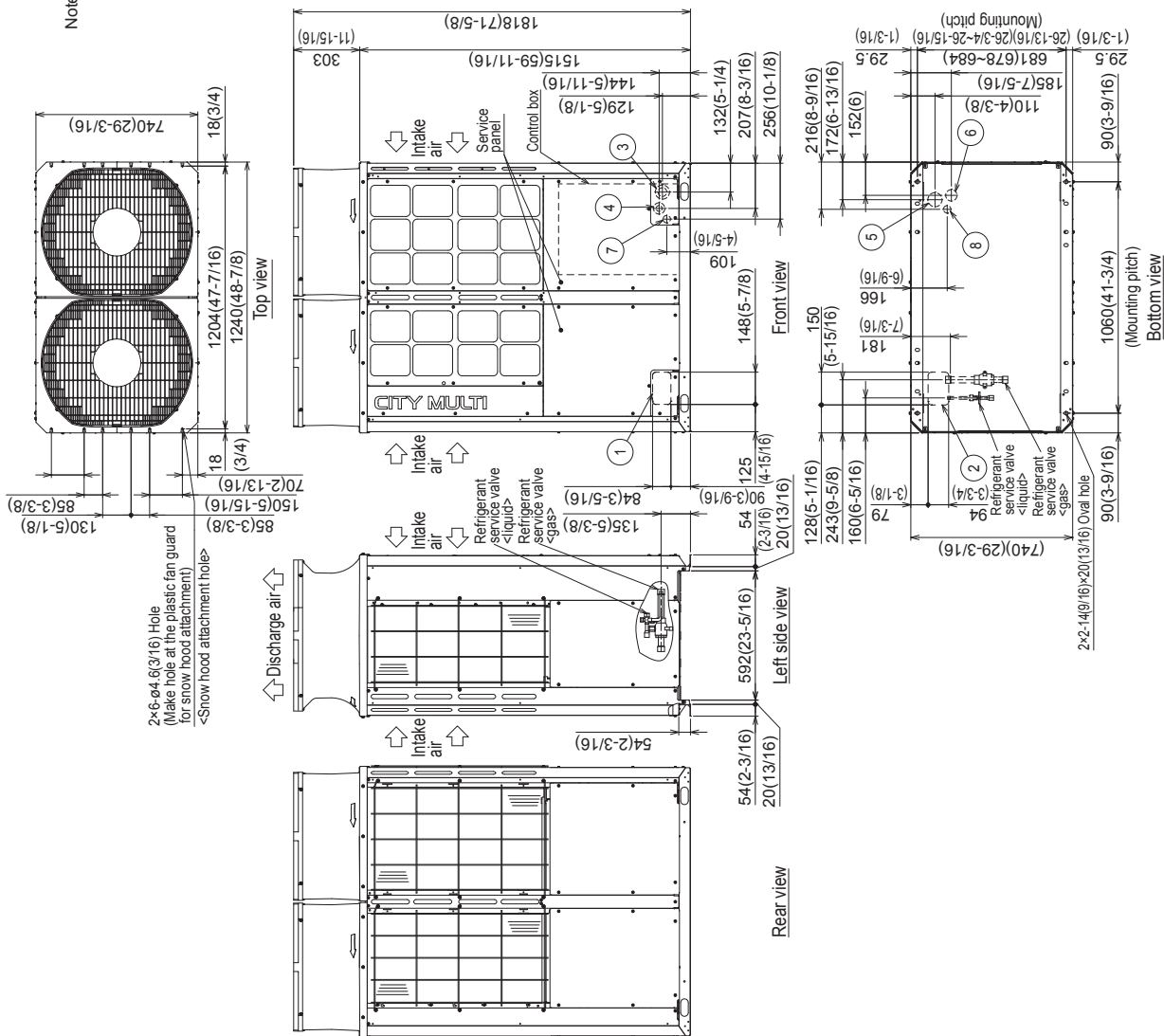
Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C (248°F).

Connecting pipe specifications

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

- *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		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	For wires	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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