

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-P312TSNU-A-TH

Seacoast (BS) Model PUHY-P312TSNU-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-P312TSNU-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	25.98			
		Current input	A	80.1-72.4			
	(Rated)		BTU/h	298,000			
			kW	87.3			
(208-230)		Power input	kW	30.88		29.10	
		Current input	A	95.2-86.1		89.7-81.1	
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	28.28			
		Current input	A	87.2-78.8			
	(Rated)		BTU/h	334,000			
			kW	97.9			
(208-230)		Power input	kW	26.42		25.64	
		Current input	A	81.4-73.6		79.0-71.5	
Temp. range of heating *3		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) *4			dB <A>	84.0/85.0			
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-P120TNU-A (-BS)	PUHY-P120TNU-A (-BS)	PUHY-P72TNU-A (-BS)
Minimum Circuit Ampacity (*)		A	50-46	29-26
Maximum Overcurrent Protection (*)		A	80-70	45-40
FAN	Type x Quantity	Propeller fan x 2		Propeller fan x 1
	Airflow rate	7,750		6,000
		m3/min		170
	Control, Driving mechanism	Inverter-control, Brushless DC motor		Inverter-control, Brushless DC motor
	Motor output	0.46+0.46		0.92
	*5 External static press.	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
	Starting method	Inverter		Inverter
	Motor output	7.7 x 1		3.8 x 1
	Case heater	-		-
	Lubricant	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>
External dimension H x W x D		in.	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 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)
	Inverter circuit (COMP./FAN)	Over-current protection		Over-current protection
	Fan motor	-		-
Refrigerant	Type x original charge	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)	605 (274)	470 (213)
Heat exchanger		Salt-resistant cross fin & copper tube		Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Change)		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) Braze	3/8 (9.52) Braze
	Gas pipe	in. (mm)	1-1/8 (28.58) Braze	7/8 (22.2) Braze
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:

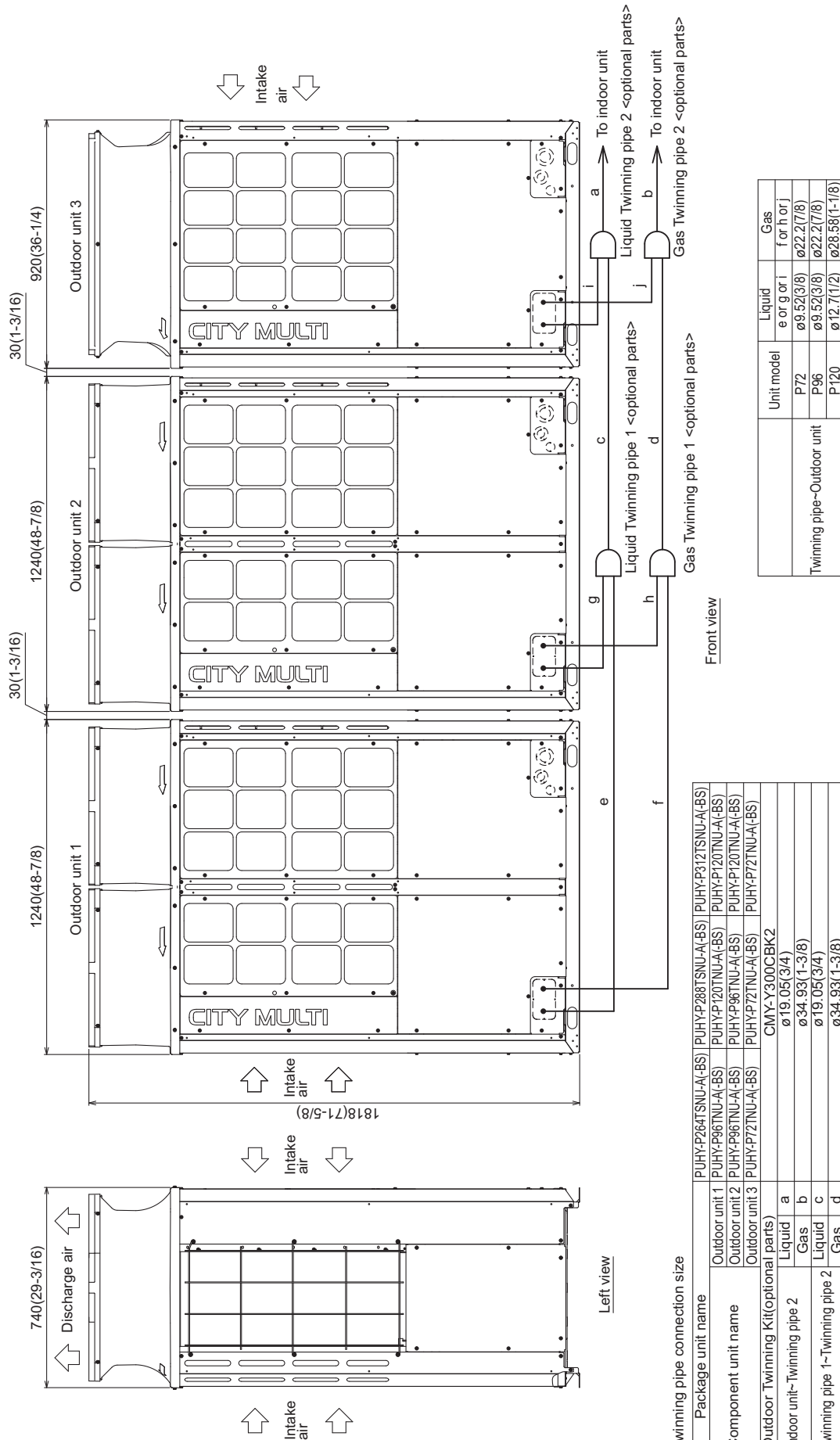
- Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)
- Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)
- When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating.
- Cooling mode/Heating mode
- External static pressure option is available (0.12 in.WG, 0.24 in.WG, 0.32 in.WG/30 Pa, 60 Pa, 80 Pa).
- Due to continuing improvement, above specifications may be subject to change without notice.

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-P312TSNU-A-TH(-BS) - DIMENSIONS



Unit: mm (in.)

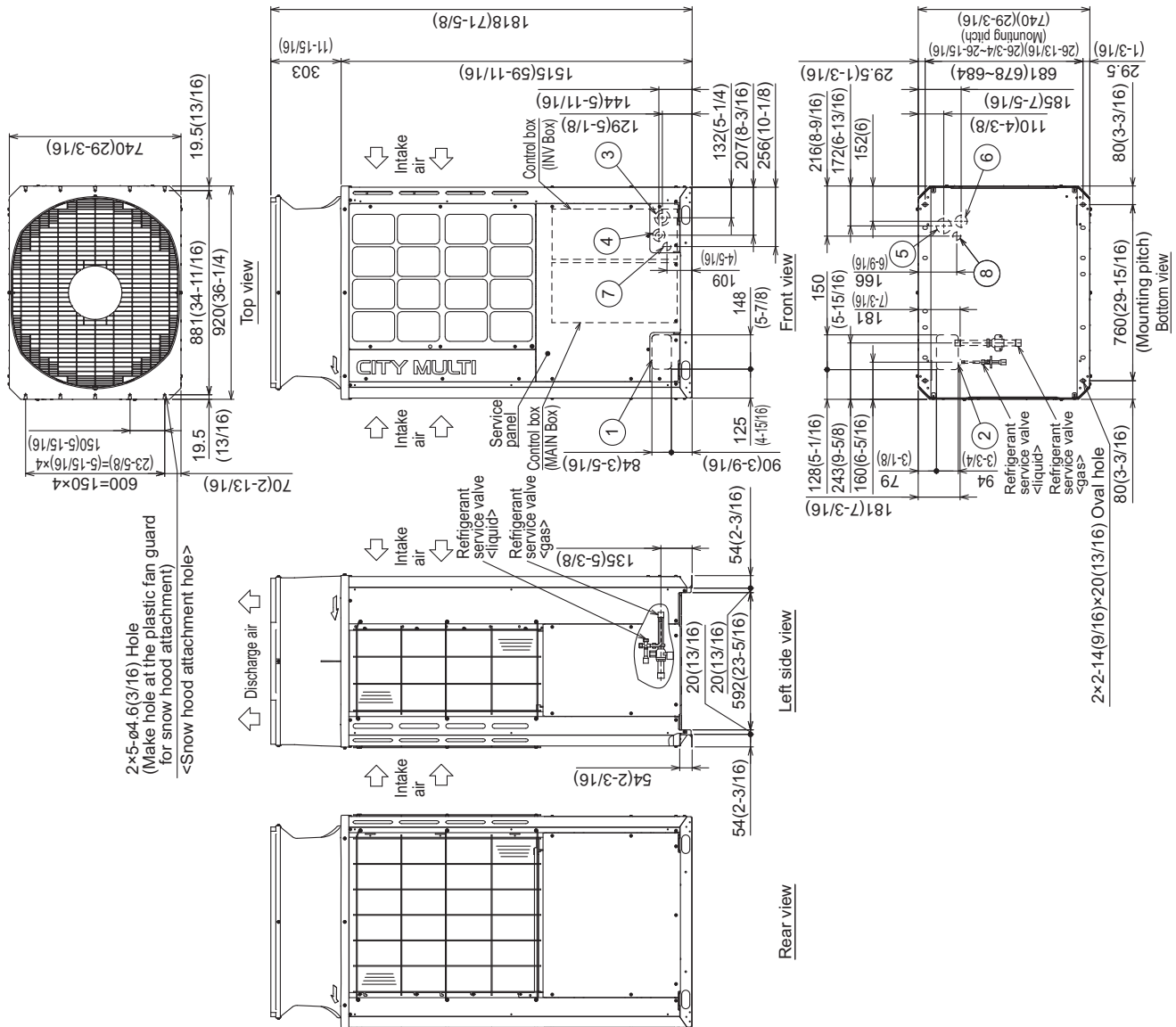
Module: PUHY-P72TNU-A-TH(-BS) - DIMENSIONS

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
P72	ø5.52(3/8) Brazed	ø22.2(7/8) Brazed	ø9.52(3/8)	ø22.2(7/8)

NO.	Usage	Specifications
①	For pipes	148(5-7/8) × 84(3-5/16) Knockout hole
②		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	For wires	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



Unit: mm (in.)

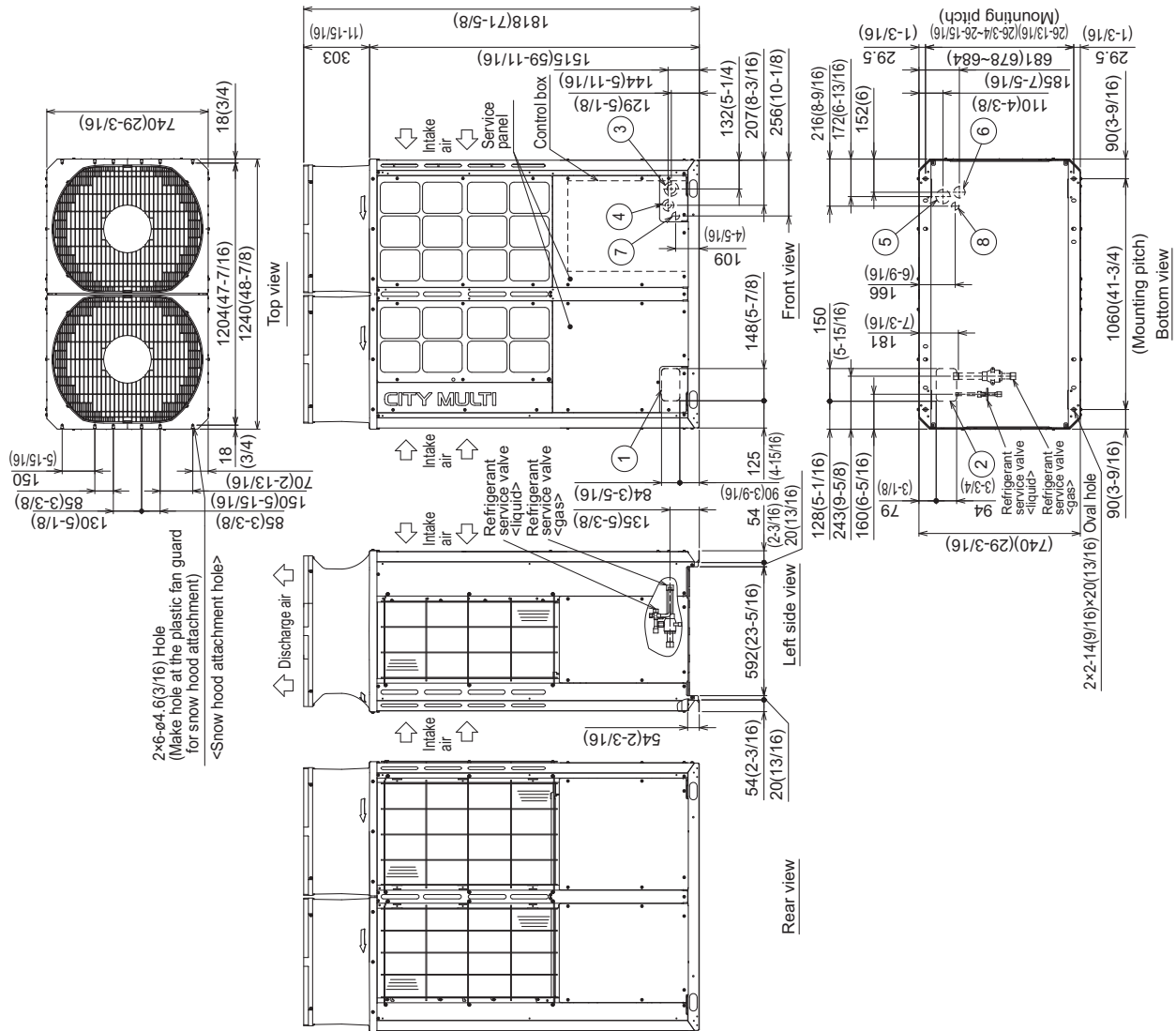
Unit: mm (in.)

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).

Model	Refrigerant pipe		Diameter	
	Liquid	Gas	Liquid	Gas
P96	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,3	ø22.2(7/8) Brazed**1,2		
P120	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,2,4		ø12.7(1/2)	ø26.56(1-1/8)
P144	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	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(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(2-1/8) Knockout hole
⑦	Front through hole	ø34(1-3/8) Knockout hole
⑧	Bottom through hole	ø24(1-3/8) Knockout hole



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