

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-P120TNU-A-TH

Seacoast (BS) Model PUHY-P120TNU-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-PH02EHYU-E) (x1)

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.

Notes:

1. Nominal 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)
2. Nominal 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)
3. 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.
4. Cooling mode/Heating mode
5. 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.

Outdoor Model				PUHY-P120TNU-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	120,000			
			kW	35.2			
(208-230)			Power input	kW			
			8.88				
(Rated)			Current input	A			
			27.3-24.7				
(208-230)			BTU/h	115,000			
			kW	33.7			
(208-230)			Power input	kW		10.91	10.80
			Current input	A		33.6-30.4	33.3-30.1
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	135,000			
			kW	39.6			
(208-230)			Power input	kW			
			9.97				
(Rated)			Current input	A			
			30.7-27.8				
(208-230)			BTU/h	129,000			
			kW	37.8			
(208-230)			Power input	kW		9.01	9.33
			Current input	A		27.7-25.1	28.7-26.0
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~P96/1~30		
Sound power level (measured in anechoic room) *4				dB <A>		80.0/81.0	
Refrigerant			Liquid pipe	in. (mm)		3/8 (9.52) Brazed (1/2 (12.7) Brazed, the farthest pipe length >= 40 m)	
piping diameter			Gas pipe	in. (mm)		1-1/8 (28.58) Brazed	
Minimum Circuit Ampacity (*)				A		50-46	
Maximum Overcurrent Protection (*)				A		80-70	
FAN			Type x Quantity		Propeller fan x 2		
			Airflow rate		cfm		
					m3/min		
			Control, Driving mechanism		Inverter-control, Brushless DC motor		
			Motor output		kW		
Compressor			*5 External static press.		0 in.WG (0 Pa)		
			Type x Quantity		Inverter scroll hermetic compressor x 1		
			Starting method		Inverter		
			Motor output		kW		
External finish			Case heater		kW		
			Lubricant		MEL32		
				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	
				mm		1,818 x 1,240 x 740	
Protection devices			High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		
			Inverter circuit (COMP./FAN)		Over-current protection		
			Fan motor		-		
Refrigerant			Type x original charge		R410A x 21 lbs + 9 oz (9.8 kg)		
			Control		LEV and HIC circuit		
Net weight				lbs (kg)		605 (274)	
Heat exchanger				Salt-resistant cross fin & copper tube			
HIC circuit (HIC: Heat Inter-Changer)				Copper pipe, tube-in-tube structure			
Defrosting method				Auto-defrost mode (Reversed refrigerant cycle)			
Optional parts				Joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G			

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

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Module: PUHY-P120TNU-A-TH(-BS) - DIMENSIONS

Unit: mm (in.)

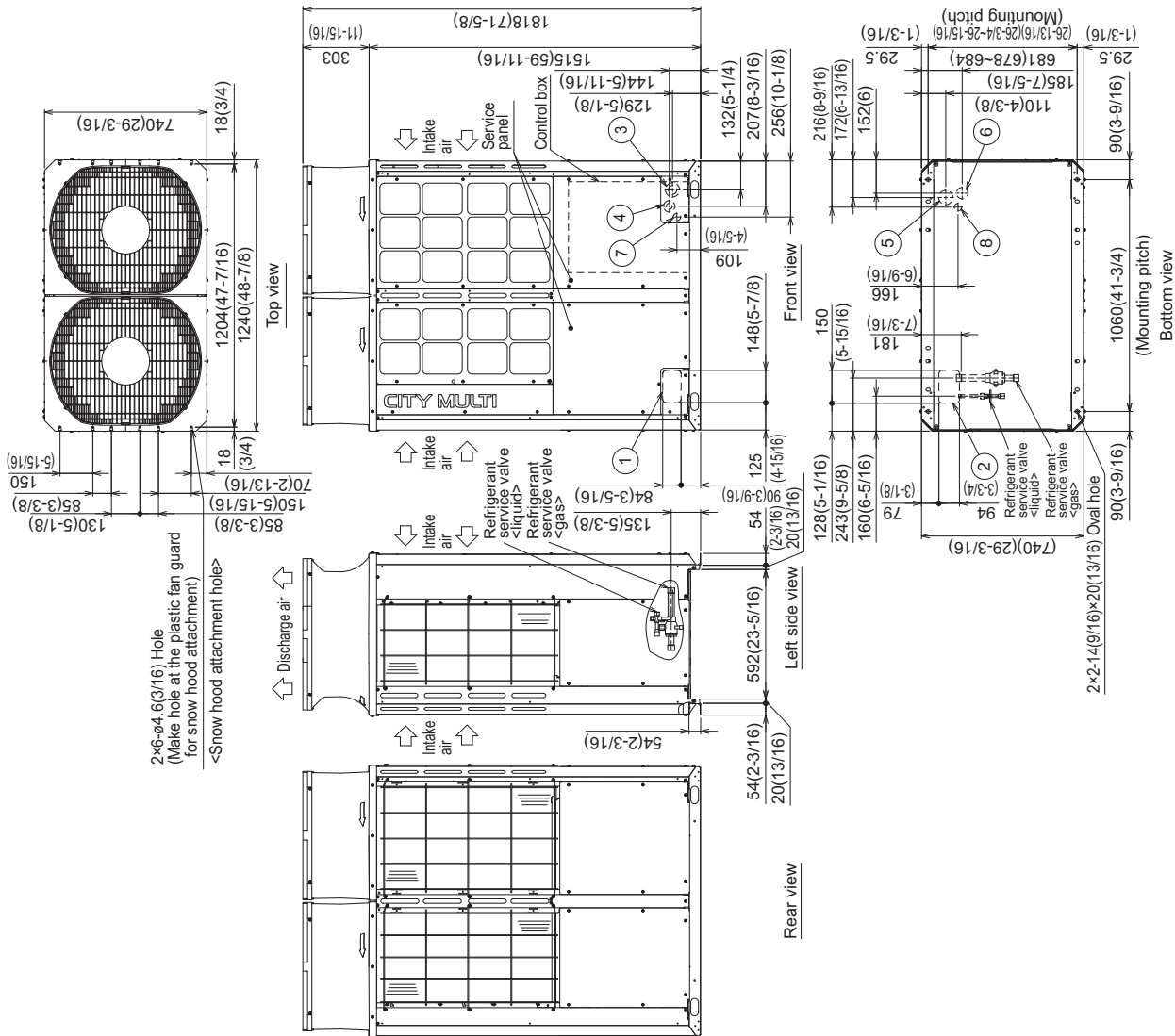
Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Refrigerant pipe		Diameter	
	Liquid	Gas	Liquid	Gas
P96	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,3	Gas	ø12.7(1/2)	ø28.58(1-1/8)
P120	ø9.52(3/8) Brazed (ø12.7(1/2) Brazed)*1,2,4	Gas	ø12.7(1/2)	ø28.58(1-1/8)
P144	ø12.7(1/2) Brazed	Gas	ø28.58(1-1/8) Brazed	Gas

- *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(3-1/8) Knockout hole
②		Bottom through hole 150(5-15/16) × 84(3-3/4) Knockout hole
③		Front through hole ø62.7(2-1/2) or ø64.5(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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