

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-P144TNU-A1

Seacoast (BS) Model PUHY-P144TNU-A1-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 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.)

2. 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.)

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-P144TNU-A1 (-BS)						
Indoor Model				Non-Ducted		Ducted				
Power source				3-phase 3-wire 208-230 V ±10% 60 Hz						
Cooling capacity *1 (Nominal)			BTU/h		144,000					
			kW		42.2					
			Power input		kW			11.08		
			(208-230) Current input		A			34.1-30.9		
(Rated)			BTU/h		138,000					
			kW		40.4					
			Power input		kW		12.84	13.36		
			(208-230) Current input		A		39.6-35.8	41.2-37.2		
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		160,000					
			kW		46.9					
			Power input		kW			12.21		
			(208-230) Current input		A			37.6-34.0		
			(Rated)			BTU/h		152,000		
						kW		44.5		
(208-230)			Power input		kW		11.06	11.39		
			Current input		A		34.1-30.8	35.1-31.7		
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~P96/1~36					
Sound power level (measured in anechoic room) *4				dB <A>		83.0/84.0				
Refrigerant piping diameter			Liquid pipe	in. (mm)	1/2 (12.7) Braze					
			Gas pipe	in. (mm)	1-1/8 (28.58) Braze					
Minimum Circuit Ampacity (*)				A		60-55				
Maximum Overcurrent Protection (*)				A		100-90				
FAN			Type x Quantity		Propeller fan x 2					
			Airflow rate		cfm			9,200		
					m3/min			260		
			Control, Driving mechanism		Inverter-control, Brushless DC motor					
			Motor output	kW	0.46+0.46					
			*5 External static press.	0 in.WG (0 Pa)						
Compressor			Type x Quantity		Inverter scroll hermetic compressor x 1					
			Starting method		Inverter					
			Motor output	kW	9.6 x 1					
			Case heater	kW	0.045					
			Lubricant		MEL32					
External finish				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 23 lbs + 12 oz (10.8 kg)					
			Control		LEV and HIC circuit					
Net weight				lbs (kg)		649 (294)				
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-P144TNU-A1(-BS) - DIMENSIONS

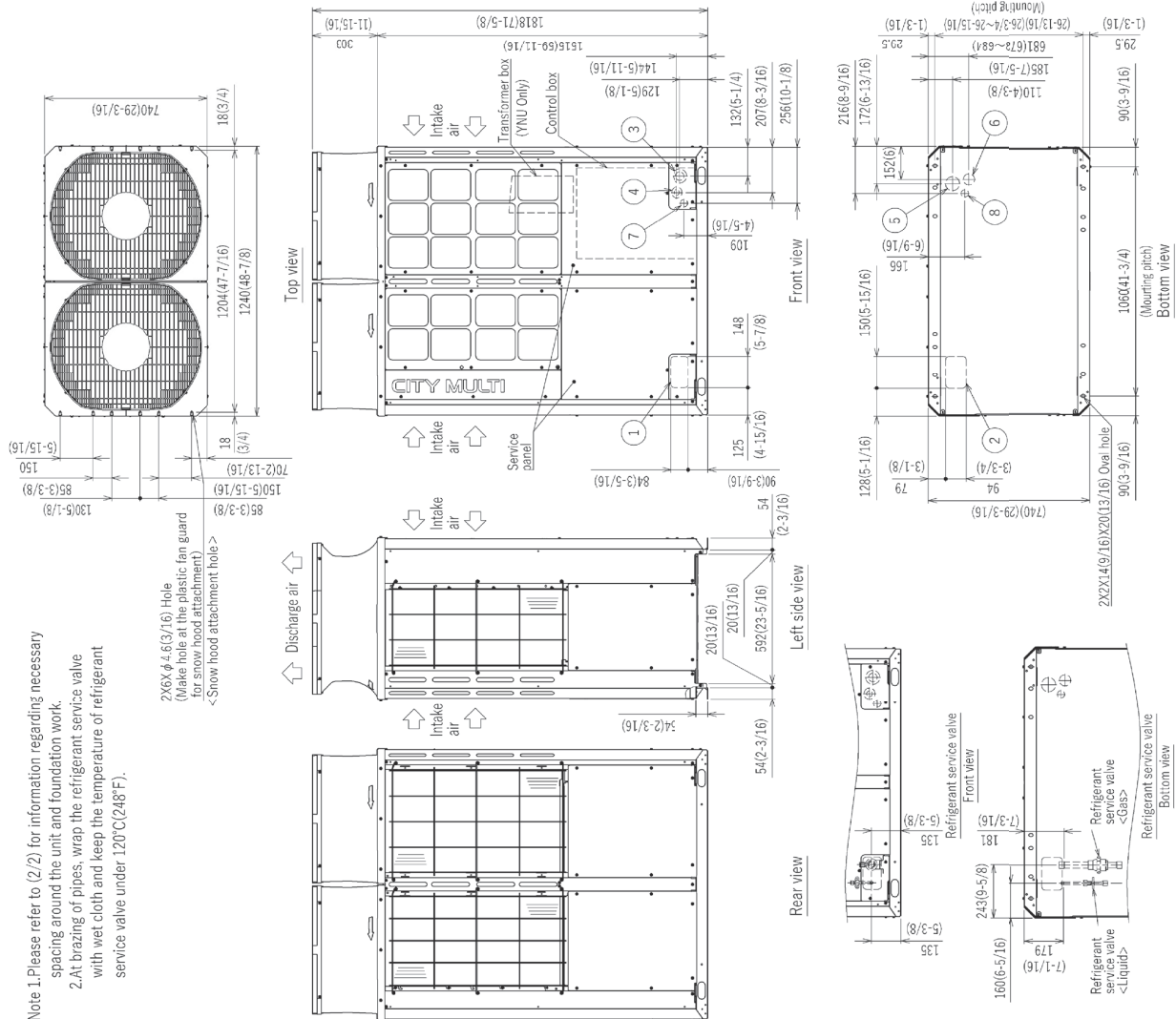
Unit: mm (in.)

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe *1		Service valve	
	Liquid	Gas	Liquid	Gas
(E)P96	φ 9.52(3/8)	φ 22.2(7/8)	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P96	φ 12.7(1/2)	φ 22.2(7/8)	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P120	φ 9.52(3/8)	φ 28.58(1-1/8)	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P120	φ 12.7(1/2)	φ 28.58(1-1/8)	φ 12.7(1/2)	φ 28.58(1-1/8)
(E)P144	φ 12.7(1/2)	φ 28.58(1-1/8)	φ 12.7(1/2)	φ 28.58(1-1/8)

- *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 (295ft)
- *4 Furthest piping length (OU from IU) ≧ 40m (131ft)

No.	Usage	Specifications
①	For pipes	Front through hole 148(5-7/8) X 84(3-5/16) Knockout hole
②		Bottom through hole 150(5-15/16) X 94(3-3/4) Knockout hole
③		Front through hole 150(5-15/16) X 94(3-3/4) Knockout hole
④	For wires	Front through hole 150(5-15/16) X 94(3-3/4) Knockout hole
⑤		Bottom through hole 150(5-15/16) X 94(3-3/4) Knockout hole
⑥		Bottom through hole 150(5-15/16) X 94(3-3/4) Knockout hole
⑦	For transmission cables	Front through hole 150(5-15/16) X 94(3-3/4) Knockout hole
⑧		Bottom through hole 150(5-15/16) X 94(3-3/4) Knockout hole



Note 1. Please refer to (2/2) 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).

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