

Job Name:

Schedule Reference:

Date:

**UNIT OPTION**

Standard Model PUHY-EP144TNU-A-TH

Seacoast (BS) Model PUHY-EP144TNU-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:

- 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.)
- 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.)
- 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).

Specifications are subject to change without notice.

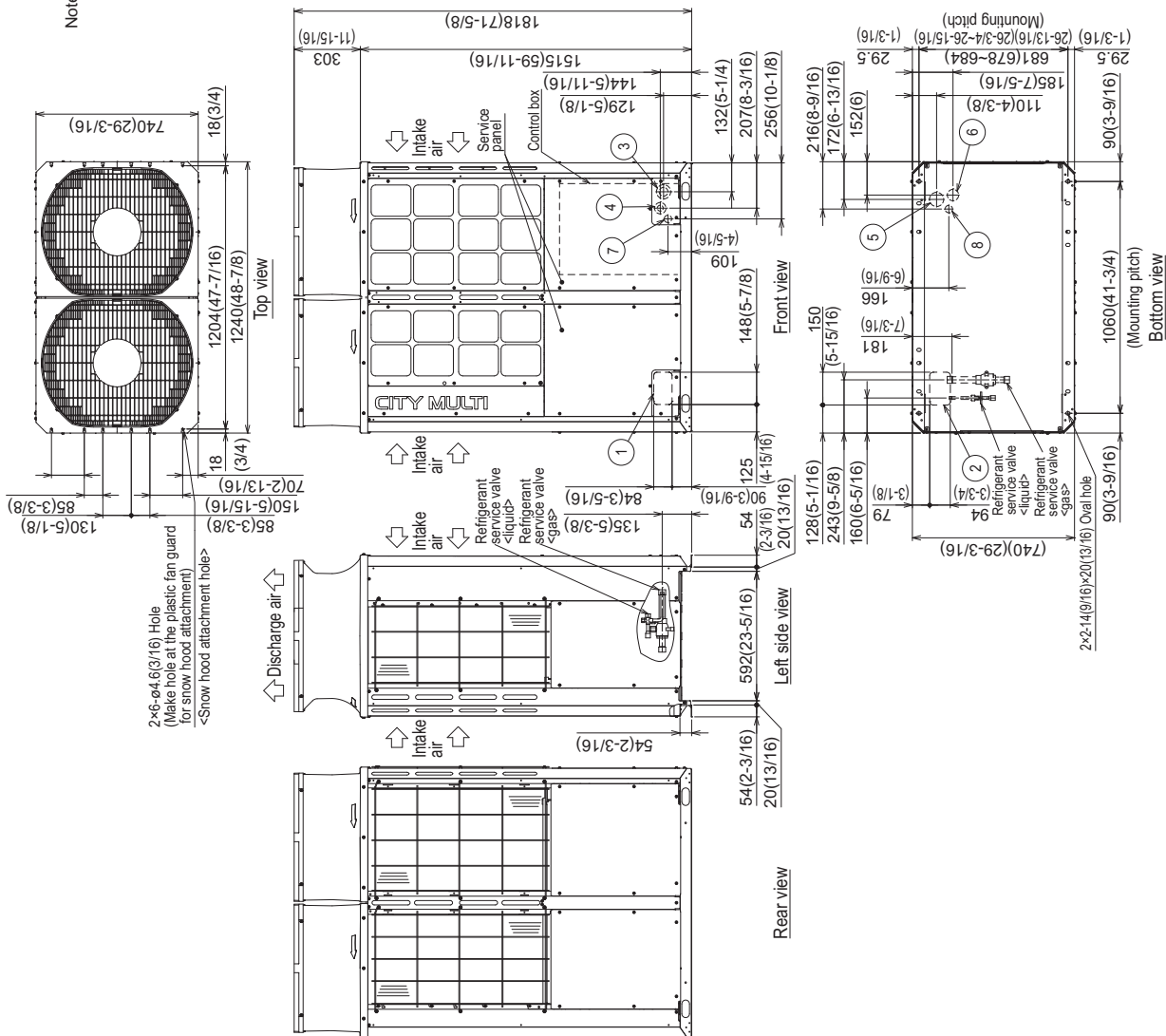
Outdoor Model				PUHY-EP144TNU-A (-BS)				
Indoor Model				Non-Ducted		Ducted		
Power source				3-phase 3-wire 208-230 V ±10% 60 Hz				
Cooling capacity *1 (Nominal)			BTU/h		144,000			
			kW		42.2			
(208-230)			Power input		kW			10.63
			Current input		A			32.7-29.6
(Rated)			BTU/h		138,000			
			kW		40.4			
(208-230)			Power input		kW		12.72	12.70
			Current input		A		39.2-35.4	39.1-35.4
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			
(208-230)			Power input		kW			11.84
			Current input		A			36.5-33.0
(Rated)			BTU/h		152,000			
			kW		44.5			
(208-230)			Power input		kW		10.74	11.02
			Current input		A		33.1-29.9	33.9-30.7
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 connectable			Total capacity		50~130% of outdoor unit capacity			
			Model/Quantity		P04~P96/1~36			
Sound power level (measured in anechoic room) *3				dB <A>		84.0/83.5		
Refrigerant piping diameter			Liquid pipe		in. (mm)			1/2 (12.7) Brazed
			Gas pipe		in. (mm)			1-1/8 (28.58) Brazed
Minimum Circuit Ampacity (*)				A		60-60		
Maximum Overcurrent Protection (*)				A		100-100		
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	
Compressor			*4 External static press.		0 in.WG (0 Pa)			
			Type x Quantity		Inverter scroll hermetic compressor x 1			
			Starting method		Inverter			
			Motor output		kW		9.3 x 1	
			Case heater		kW		-	
External finish			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 23 lbs + 12 oz (10.8 kg)			
			Control		LEV and HIC circuit			
Net weight				lbs (kg)		680 (308)		
Heat exchanger				Salt-resistant cross fin & aluminium 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. Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.

Module: PUHY-EP144TNU-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		Service valve	
	Liquid	Gas	Liquid	Gas
EP96	ø9.52(3/8) Brazed	ø22.2(7/8) Brazed*1,2	ø12.7(1/2)	ø28.58(1-1/8)
EP120	ø9.52(3/8) Brazed	ø22.2(7/8) Brazed*1,2,4	ø12.7(1/2)	ø28.58(1-1/8)
EP144	ø12.7(1/2) Brazed	ø28.58(1-1/8) Brazed	ø12.7(1/2)	ø28.58(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
*4 Furthest piping length (OU from IU) ≥ 40m

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 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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