

Job Name:

Schedule Reference:

Date:



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)

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-HP120TNU-A		
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		
		Power input	kW		8.53
		(208-230) Current input	A		26.3-23.7
(Rated)		BTU/h	115,000		
		kW	33.7		
		Power input	kW	10.13	9.72
		(208-230) Current input	A	31.2-28.2	29.9-27.1
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		
		Power input	kW		9.63
		(208-230) Current input	A		29.7-26.8
(Rated)		BTU/h	129,000		
		kW	37.8		
		Power input	kW	8.55	9.17
		(208-230) Current input	A	26.3-23.8	28.2-25.5
Temp. range of heating		Indoor	D.B. 59~81°F (15~27°C)		
		Outdoor	W.B. -22~60°F (-30~15.5°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) *3		dB <A>	79.5/80.5		
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed 1/2 (12.7) Brazed, the farthest pipe length >= 40 m)		
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed		
Minimum Circuit Ampacity (*)		A	66-60		
Maximum Overcurrent Protection (*)		A	110-100		
FAN		Type x Quantity		Propeller fan x 2	
		Airflow rate	cfm	7,750	
			m3/min	220	
		Control, Driving mechanism		Inverter-control, Brushless DC motor	
		Motor output	kW	0.46+0.46	
*4 External static press.		0 in.WG (0 Pa)			
Compressor		Type x Quantity		Inverter scroll hermetic compressor x 1	
		Starting method		Inverter	
		Motor output	kW	6.5 x 1	
		Case heater	kW	-	
Lubricant		MEL46			
External finish			Pre-coated galvanized steel sheet <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)	655 (297)		
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		

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.

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

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Module: PUHY-HP120TNU-A-TH - 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	
HP72	Liquid ø5.52(3/8) Brazed *1	Gas	Gas
HP96	Liquid ø5.52(3/8) Brazed *1	Gas	Gas
HP120	Liquid ø5.52(3/8) Brazed *1	Gas	Gas

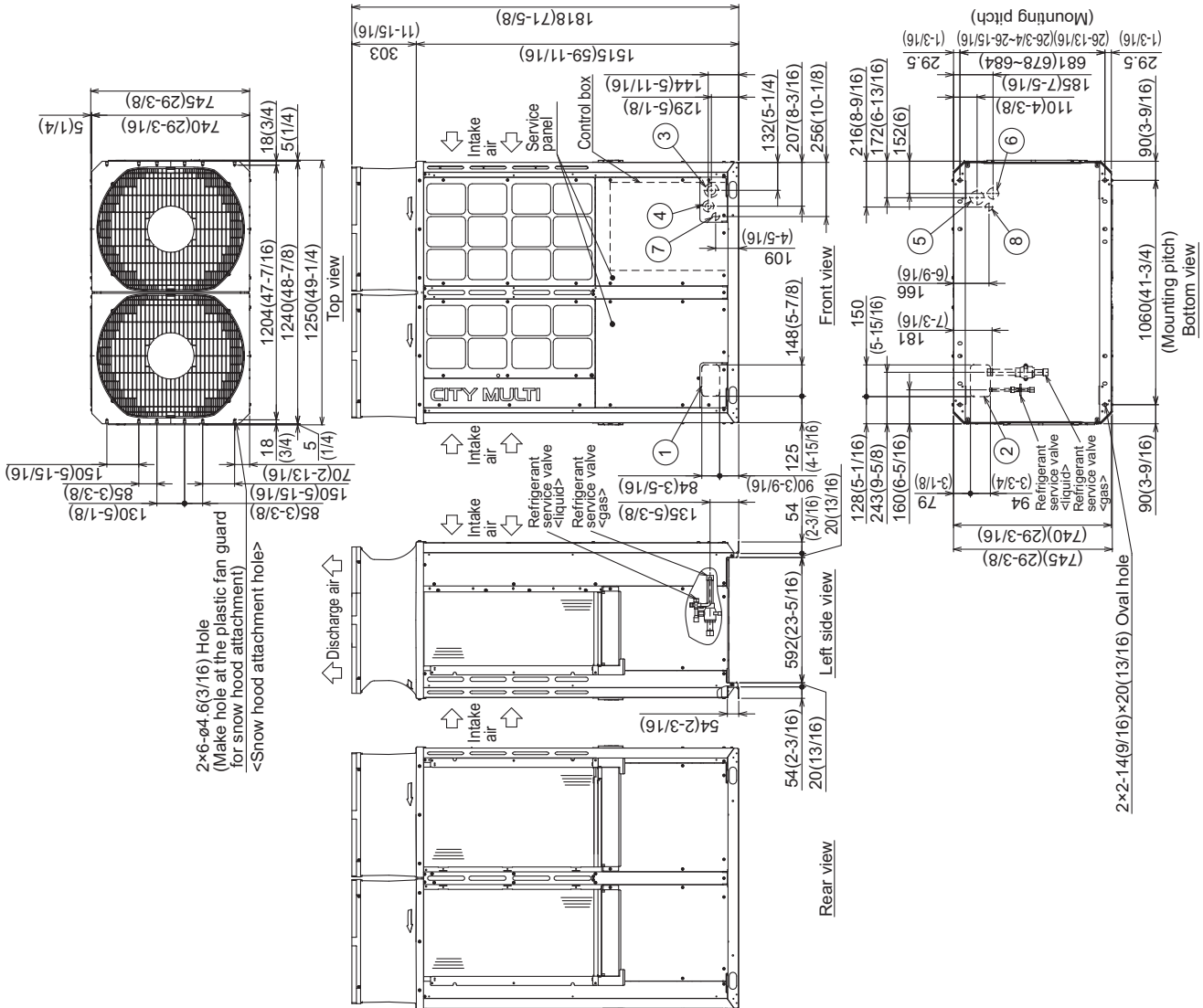
*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

*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(3-5/16) Knockout hole
②		Bottom through hole 150(5-15/16) × 94(3-3/4) Knockout hole
③		Front through hole ø2.7(2-1/2) or ø3.4(1-3/8) Knockout hole
④		Front through hole ø3.7(1-3/4) or ø2.2(7/16) Knockout hole
⑤		Bottom through hole ø5.2(9/16) Knockout hole
⑥		Bottom through hole ø2.2(1-1/16) 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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