CITY MULTI® Model: PUHY-HP120TNU-A1

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 seperate 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-A1	
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	0.045	
		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:

1.Cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)
2.Heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)
3.Cooling mode/Heating mode
4.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.

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-HP120TNU-A1 - DIMENSIONS

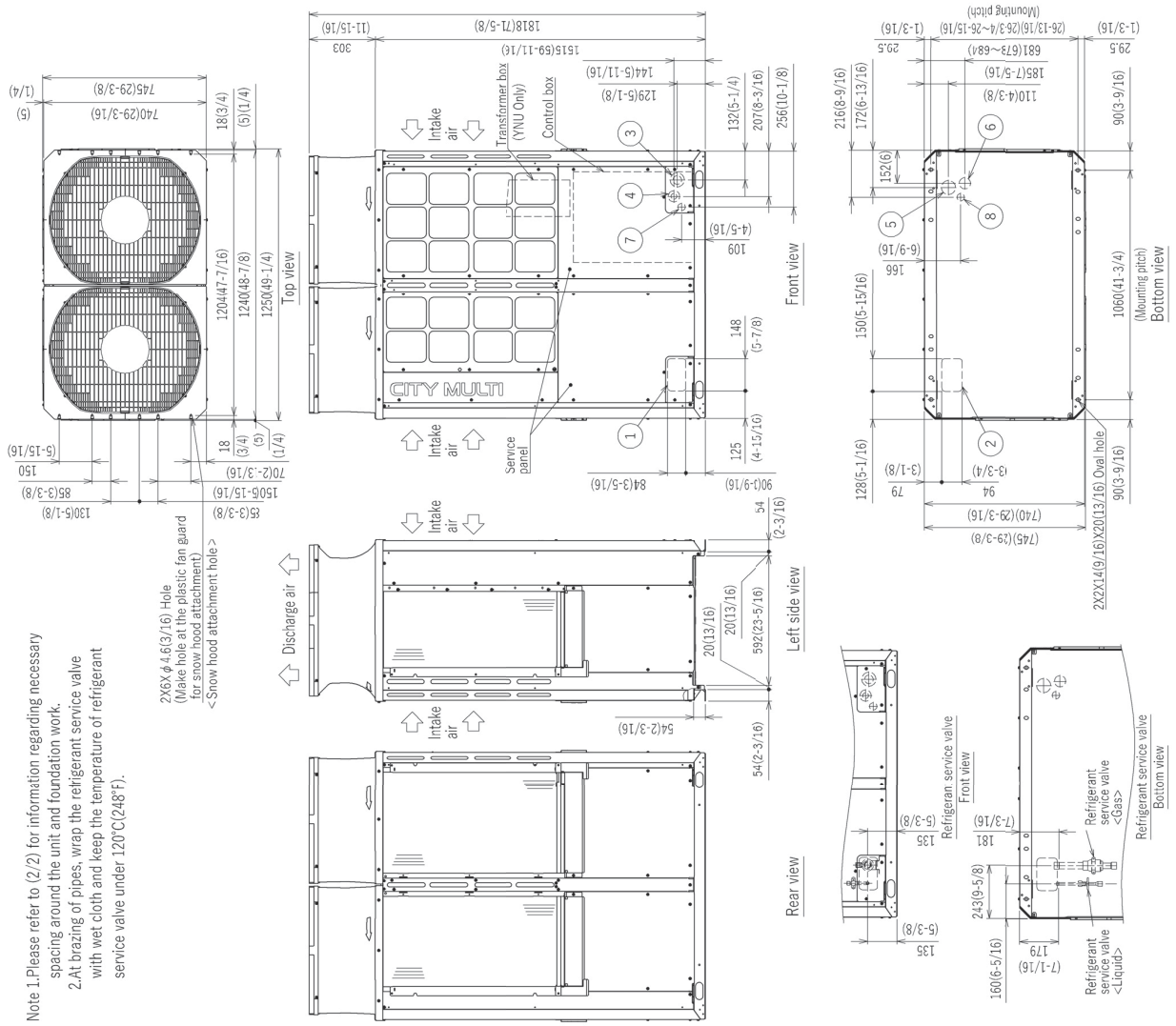
Unit: mm (in.)

Connecting pipe specifications

Model	Diameter					
	Refrigerant pipe *1				Service valve	
	Liquid	Gas			Liquid	Gas
HP72	φ9.52(3/8)	Brazed	φ22.2(7/8)	Brazed	φ12.7(1/2)	φ28.58(1-1/8)
HP96	φ9.52(3/8)	Brazed	φ22.2(7/8)	Brazed	φ12.7(1/2)	φ28.58(1-1/8)
HP96	φ12.7(1/2)	Brazed *3	φ22.2(7/8)	Brazed	φ12.7(1/2)	φ28.58(1-1/8)
HP120	φ9.52(3/8)	Brazed	φ28.58(1-1/8)	Brazed	φ12.7(1/2)	φ28.58(1-1/8)
HP120	φ12.7(1/2)	Brazed *2,*4	φ28.58(1-1/8)	Brazed	φ12.7(1/2)	φ28.58(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	For wires	Front through hole: φ62.7(2-1/2) or φ34.5(1-3/8) Knockout hole
④		Front through hole: φ43.7(1-3/4) or φ22.2(7/8) Knockout hole
⑤		Bottom through hole: φ65(2-9/16) Knockout hole
⑥		Bottom through hole: φ52(2-1/16) Knockout hole
⑦	For transmission cables	Front through hole: φ34(1-3/8) Knockout hole
⑧		Bottom through hole: φ34(1-3/8) 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).

MITSUBISHI ELECTRIC
Heating and Cooling