

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		114,000	
			kW	33.4	
(208-230)	Power input	kW	7.67	8.11	
		Current input	A	23.6-21.3	25.0-22.6
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	
(208-230)	Power input	kW	8.55	9.28	
		Current input	A	26.3-23.8	28.6-25.8
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		P05~P96/1~26		
Sound pressure level (measured in anechoic room) *3		dB <A>	59.5/61.5		
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) Braze (1/2 (12.7) Braze, the farthest pipe length >= 40 m)		
	Gas pipe	in. (mm)	1-1/8 (28.58) Braze		
Minimum Circuit Ampacity (*)		A	47-43		
Maximum Overcurrent Protection (*)		A	70-60		
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		
	Manufacture		MITSUBISHI ELECTRIC		
	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 49-1/4 x 29-3/8		
		mm	1,818 x 1,250 x 745		
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. 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-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	Refrigerant pipe		Diameter	
	Liquid	Gas	Gas	Service valve
HP72	ø9.52(3/8) Brazed *1	ø22.2(7/8) Brazed *1	ø12.7(1/2)	ø28.58(1-1/8)
HP96	ø9.52(3/8) Brazed *1	ø22.2(7/8) Brazed *1, *3	ø12.7(1/2)	ø28.58(1-1/8)
HP120	ø9.52(3/8) Brazed *1, *2, *4	ø28.58(1-1/8) Brazed *1, *2, *4	ø12.7(1/2)	ø28.58(1-1/8)

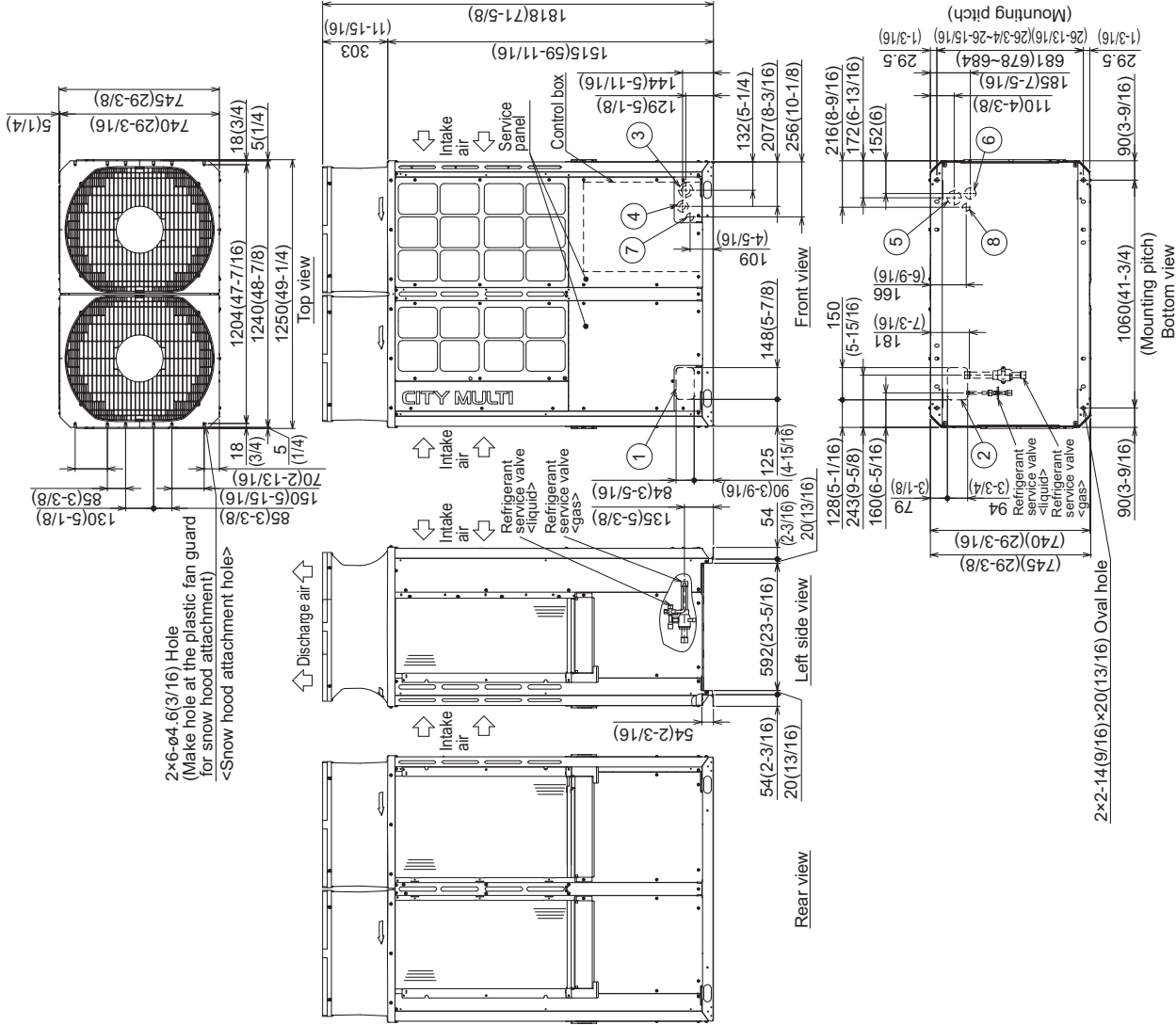
*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

*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	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	For pipes	Front through hole ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole
④	For wires	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	ø62(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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