

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-HP72TNU-A	
Indoor Model		Non-Ducted	Ducted
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1 (Nominal)		BTU/h	72,000
		kW	21.1
	Power input	kW	5.39
	(208-230) Current input	A	16.6-15.0
(Rated)		BTU/h	69,000
		kW	20.2
	Power input	kW	4.9
	(208-230) Current input	A	15.1-13.6
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	80,000
		kW	23.4
	Power input	kW	5.33
	(208-230) Current input	A	16.4-14.8
(Rated)		BTU/h	76,000
		kW	22.3
	Power input	kW	4.83
	(208-230) Current input	A	14.8-13.4
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-P72/1-15	
Sound pressure level (measured in anechoic room) *3	dB <A>	55.0/57.0	
Sound power level (measured in anechoic room) *3	dB <A>	74.0/76.0	
Refrigerant piping diameter	Liquid pipe	in. (mm)	3/8 (9.52) Brazed
	Gas pipe	in. (mm)	7/8 (22.2) Brazed
Minimum Circuit Ampacity (*)	A	38-35	
Maximum Overcurrent Protection (*)	A	60-50	
FAN	Type x Quantity	Propeller fan x 2	
	Airflow rate	cfm	6,700
		m3/min	190
	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	3.8 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 21 lbs + 10 oz (9.8 kg)	
	Control	LEV and HIC circuit	
Net weight	lbs (kg)	609 (276)	
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		
	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-HP72TNU-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		Service valve	
	Liquid	Gas	Gas	Liquid	Gas	Gas
HP72	ø9.52(3/8) Braze <sup>*1</sup>		ø22.2(7/8) Braze <sup>*1</sup>			
HP96	ø9.52(3/8) Braze <sup>*1</sup>		ø12.7(1/2) Braze <sup>*1,3</sup>	ø12.7(1/2)		ø28.58(1-1/8)
HP120	ø9.52(3/8) Braze <sup>*1</sup>		ø12.7(1/2) Braze <sup>*1,2,4</sup>	ø28.58(1-1/8) Braze <sup>*1</sup>		

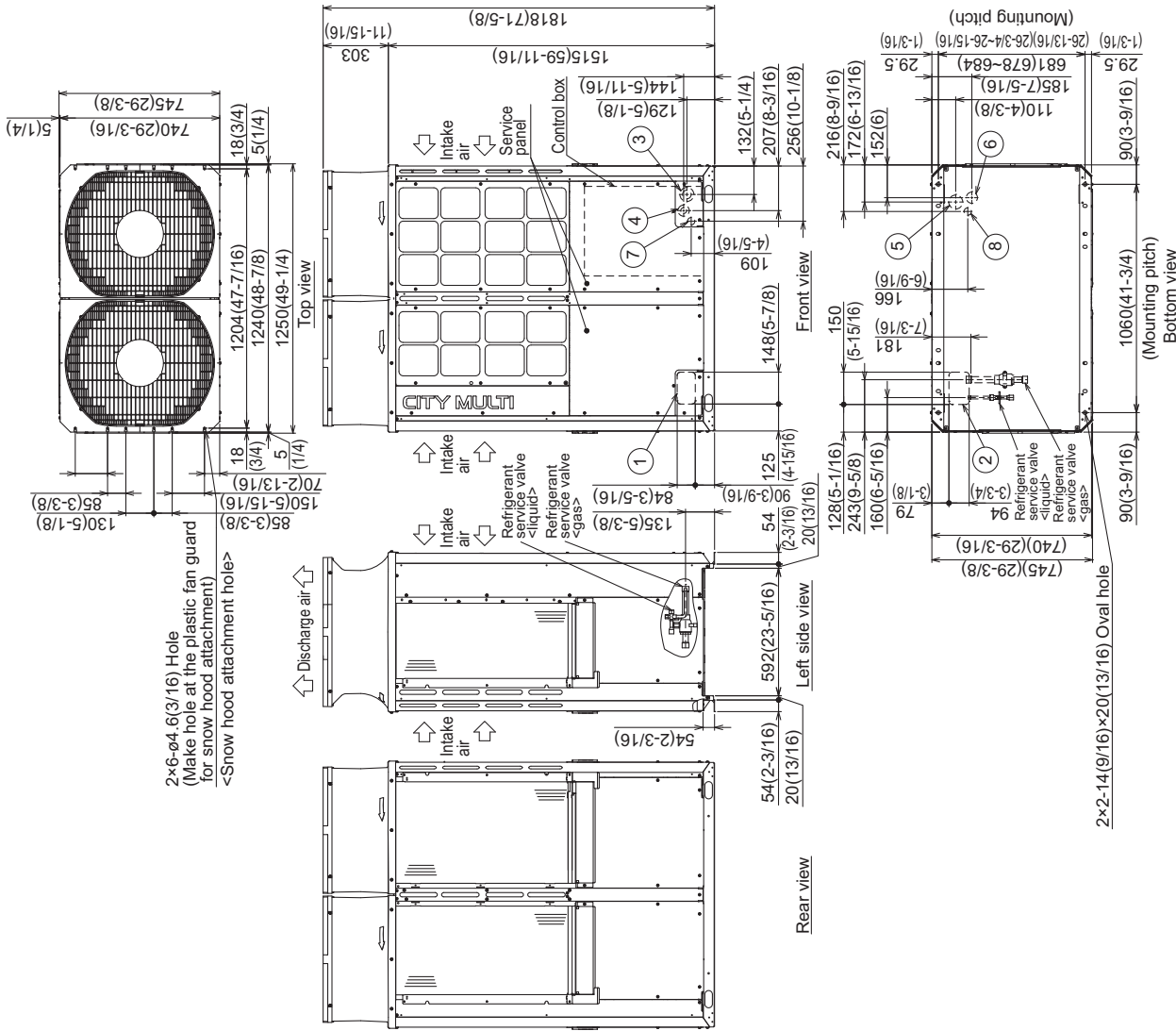
\*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

\*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	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	Bottom through hole	ø65(2-9/16) Knockout hole
⑥	Bottom through hole	ø62(2-1/16) Knockout hole
⑦	Front through hole	ø34(1-3/8) Knockout hole
⑧	Bottom through hole	ø34(1-3/8) Knockout hole



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