

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-A1						
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		5.44	5.59		
			(208-230) Current input		A		16.7-15.1	17.2-15.5		
			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	5.04		
			(208-230) Current input		A		14.8-13.4	15.5-14.0		
			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~P72/1~18					
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		55-49				
Maximum Overcurrent Protection (*)				A		90-80				
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					
			Starting method		Inverter					
			Motor output		kW		3.8 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 21 lbs + 9 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.

Module: PUHY-HP72TNU-A1 - DIMENSIONS

Unit: mm (in.)

Connecting pipe specifications

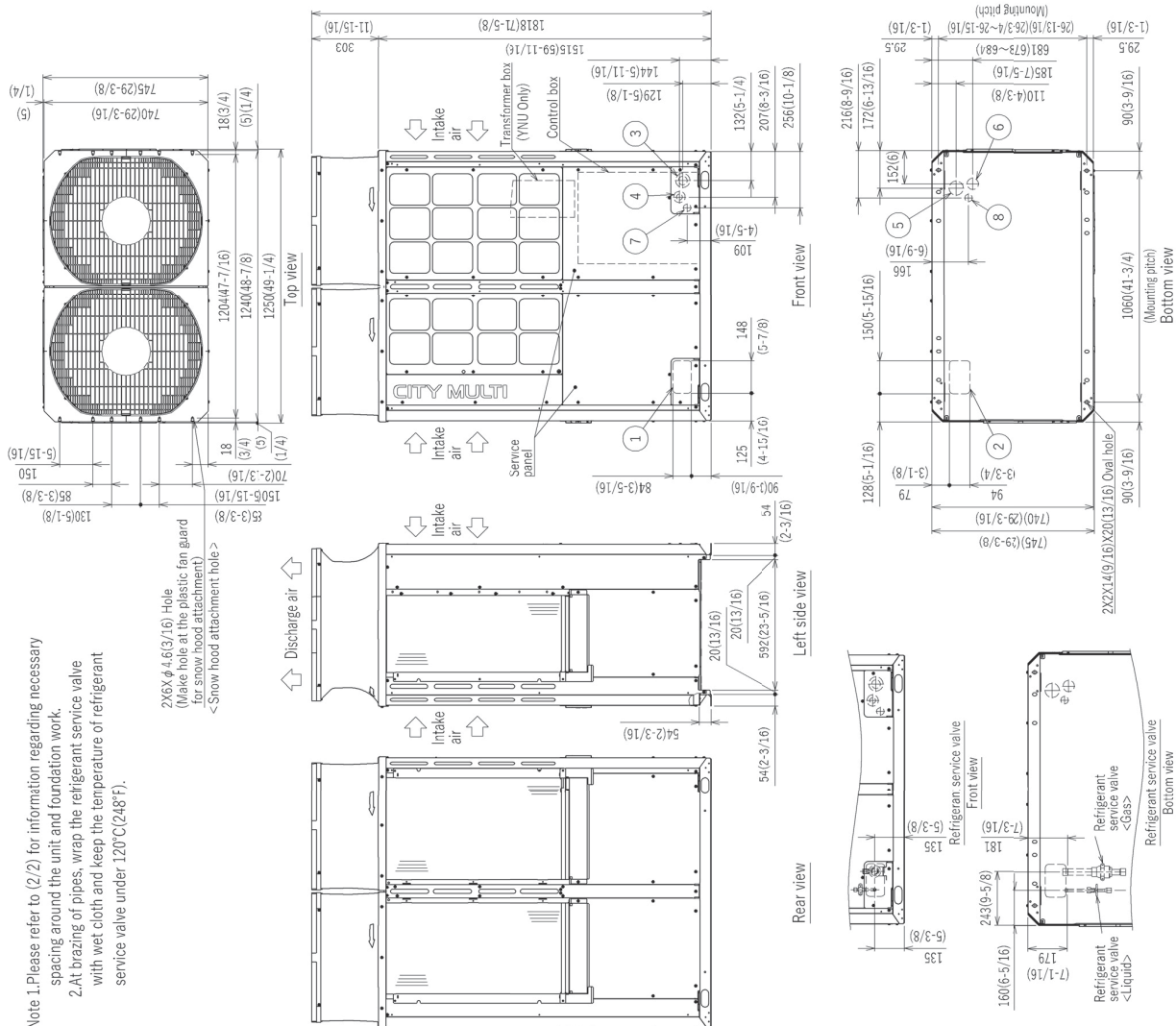
Model	Diameter			
	Refrigerant pipe *1		Service valve	
	Liquid	Gas	Liquid	Gas
HP72	φ9.52(3/8)	φ22.2(7/8)	φ12.7(1/2)	φ28.58(1-1/8)
HP96	φ9.52(3/8)	φ22.2(7/8)	φ12.7(1/2)	φ28.58(1-1/8)
HP96	φ12.7(1/2)	φ22.2(7/8)	φ12.7(1/2)	φ28.58(1-1/8)
HP120	φ9.52(3/8)	φ28.58(1-1/8)	φ12.7(1/2)	φ28.58(1-1/8)
HP120	φ12.7(1/2)	φ28.58(1-1/8)	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	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	φ62.7(2-1/2) or φ34.5(1-3/8) Knockout hole
④	Front through hole	φ43.7(1-3/4) or φ22.7(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	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).

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