

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-HP192TSNU-A1					
Indoor Model				Non-Ducted		Ducted			
Power source				3-phase 3-wire 208-230 V ±10% 60 Hz					
Cooling capacity *1 (Nominal)			BTU/h	192,000					
			kW	56.3					
			(208-230)	Power input	kW	13.79			
				Current input	A	42.5-38.4			
			(Rated)	BTU/h	184,000				
				kW	53.9				
			(208-230)	Power input	kW	15.79	15.27		
				Current input	A	48.6-44.0	47.0-42.5		
			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	215,000					
			kW	63.0					
			(208-230)	Power input	kW	15.91			
				Current input	A	49.0-44.3			
			(Rated)	BTU/h	206,000				
				kW	60.4				
			(208-230)	Power input	kW	14.39	14.79		
				Current input	A	44.3-40.1	45.6-41.2		
			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~P96/1~48					
Sound power level (measured in anechoic room) *3			dB <A>	79.5/81.0					
Refrigerant piping diameter		Liquid pipe	in. (mm)	5/8 (15.88) Brazed					
		Gas pipe	in. (mm)	1-1/8 (28.58) Brazed					

Set Model

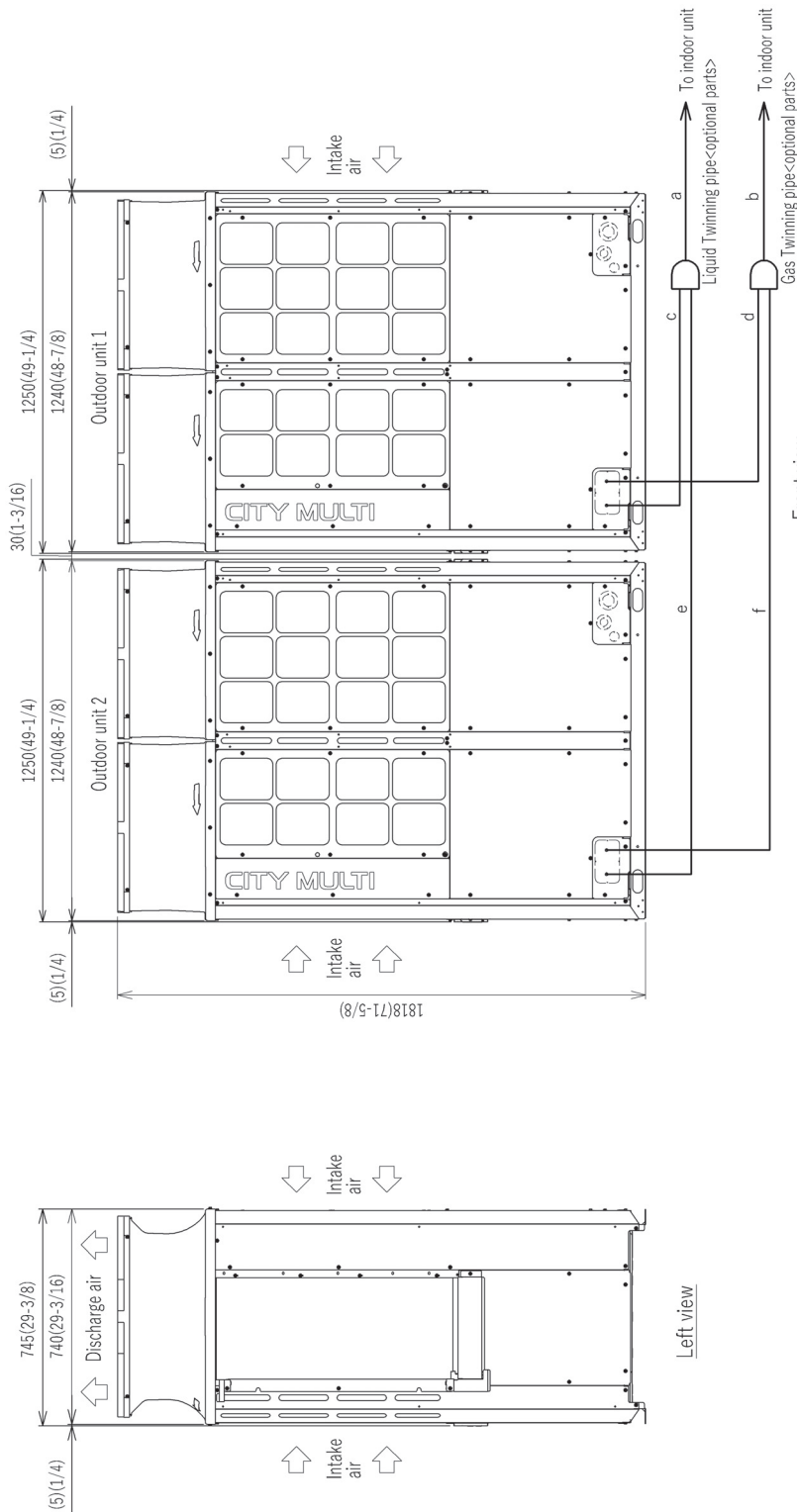
Model		PUHY-HP96TNU-A1	PUHY-HP96TNU-A1
Minimum Circuit Ampacity (*)		A 63-57	63-57
Maximum Overcurrent Protection (*)		A 100-90	100-90
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm 7,400	7,400
		m3/min 210	210
	Control, Driving mechanism	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW 0.46+0.46	0.46+0.46
	*4 External static press.	0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
	Starting method	Inverter	Inverter
	Motor output	kW 4.5 x 1	4.5 x 1
	Case heater	kW 0.045	0.045
	Lubricant	MEL46	MEL46
	External finish	Pre-coated galvanized steel sheet <MUNSELL 3Y 7.8/1.1 or similar>	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	71-5/8 x 48-7/8 x 29-3/16
		mm 1,818 x 1,240 x 740	1,818 x 1,240 x 740
Protection devices	High pressure protection	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP./FAN)	Over-current protection	Over-current protection
	Fan motor	-	-
Refrigerant	Type x original charge	R410A x 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)
	Control	LEV and HIC circuit	
Net weight		lbs (kg) 653 (296)	653 (296)
Heat exchanger		Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure
Pipe between unit and distributor	Liquid pipe	in. (mm) 3/8 (9.52) Brazed	3/8 (9.52) Brazed
	Gas pipe	in. (mm) 7/8 (22.2) Brazed	7/8 (22.2) Brazed
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)	
Optional parts		Outdoor Twinning kit: CMY-Y100CBK3 Joint: CMY-Y102SS/102LS-G2, CMY-Y202S/302S-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-HP192TSNU-A1 - DIMENSIONS



Twinning pipe connection size

Package unit name	HP144T/YSNU	HP192T/YSNU	HP240T/YSNU
Component unit name	HP72T/YNU	HP96T/YNU	HP120T/YNU
Outdoor unit 1	HP72T/YNU	HP96T/YNU	HP120T/YNU
Outdoor unit 2	HP72T/YNU	HP96T/YNU	HP120T/YNU
Outdoor Twinning Kit(optional parts)	CMY-Y100CBK3	CMY-Y100CBK3	CMY-Y100CBK3
Indoor unit			
~Twinning pipe	a	φ 12.7(1/2)	φ 15.88(5/8)
Gas	b	φ 28.58(1-1/8)	φ 28.58(1-1/8)
Twinning pipe	c	φ 9.52(3/8)	φ 12.7(1/2)
~Outdoor unit 1	d	φ 22.2(7/8)	φ 28.58(1-1/8)
Twinning pipe	e	φ 9.52(3/8)	φ 12.7(1/2)
~Outdoor unit 2	f	φ 22.2(7/8)	φ 28.58(1-1/8)
Gas			

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twinning pipes must be installed horizontally using a level vessel.
3. Be sure to see the Installation Manual for details of Twinning pipe installation.
4. The pipe section before the Twinning pipe (section "a" and "b" in the figure) must have at least 500mm(19-11/16) of straight section (* including the straight pipe that is supplied with the Twinning pipe).
5. Only use the Twinning pipe by Mitsubishi (optional parts).

Unit: mm (in.)

Module: PUHY-HP96TNU-A1 - DIMENSIONS

Unit: mm (in.)

Connecting pipe specifications

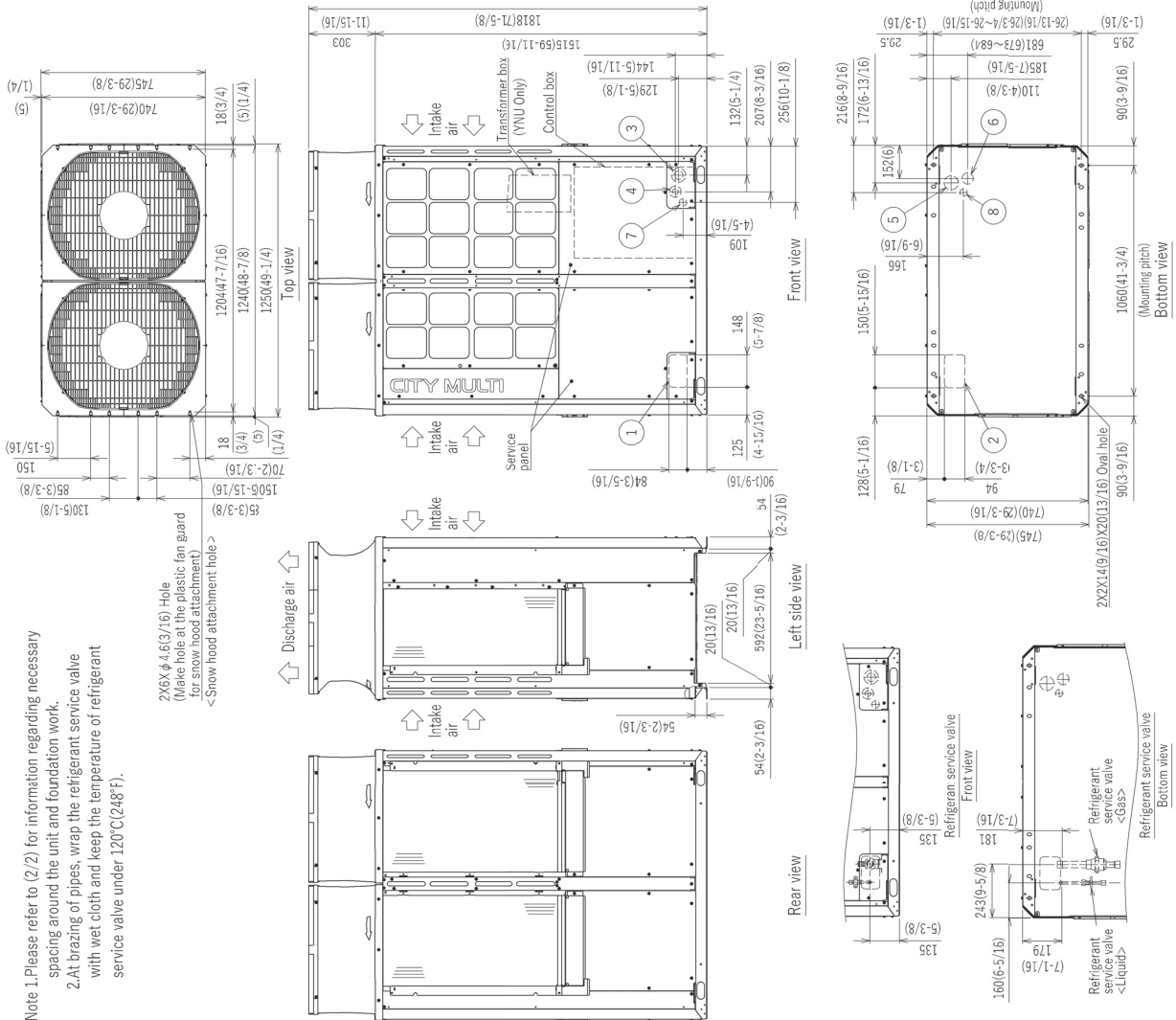
Model	Diameter			
	Refrigerant pipe *1		Service valve	
	Liquid	Gas	Liquid	Gas
HP72	φ9.52(3/8)	φ22.2(7/8)	φ12.7(1/2)	φ28.58(1-1/8)
HP96	φ9.52(3/8)	φ22.2(7/8)	φ12.7(1/2)	φ28.58(1-1/8)
HP96	φ12.7(1/2)	φ22.2(7/8)	φ12.7(1/2)	φ28.58(1-1/8)
HP120	φ9.52(3/8)	φ28.58(1-1/8)	φ12.7(1/2)	φ28.58(1-1/8)
HP120	φ12.7(1/2)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