

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-HP144TSNU-A				
Indoor Model			Non-Ducted		Ducted		
Power source			3-phase 3-wire 208-230 V ±10% 60 Hz				
Cooling capacity *1 (Nominal)			BTU/h	144,000			
			kW	42.2			
		(208-230)	Power input	kW	12.2		
			Current input	A	37.6-34.0		
(Rated)			BTU/h	138,000			
			kW	40.4			
		(208-230)	Power input	kW	11.73	12.34	
			Current input	A	36.1-32.7	38.0-34.4	
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	160,000			
			kW	46.9			
		(208-230)	Power input	kW	11.7		
			Current input	A	36.0-32.6		
		(Rated)			BTU/h	152,000	
					kW	44.5	
(208-230)	Power input			kW	10.5	10.99	
	Current input			A	32.3-29.2	33.8-30.6	
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~P96/1~36			
Sound power level (measured in anechoic room) *3			dB <A>	77.5/79.5			
Refrigerant piping diameter		Liquid pipe	in. (mm)	1/2 (12.7) Brazed			
		Gas pipe	in. (mm)	1-1/8 (28.58) Brazed			

Set Model			PUHY-HP72TNU-A	PUHY-HP72TNU-A
Model				
Minimum Circuit Ampacity (*)			A 55-49	A 55-49
Maximum Overcurrent Protection (*)			A 90-80	A 90-80
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	6,700	6,700
		m3/min	190	190
	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	3.8 x 1	3.8 x 1
	Case heater	kW	-	-
	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 21 lbs + 9 oz (9.8 kg)	R410A x 21 lbs + 9 oz (9.8 kg)
	Control		LEV and HIC circuit	
Net weight		lbs (kg)	609 (276)	609 (276)
Heat exchanger			Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Change)			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) Braze	3/8 (9.52) Braze
	Gas pipe	in. (mm)	7/8 (22.2) Braze	7/8 (22.2) Braze
Defrosting method			Auto-defrost mode (Reversed refrigerant cycle)	
Optional parts			Outdoor Twinning kit: CMY-Y100CBK3 Joint: CMY-Y102SS/102LS-G2, CMY-Y202S-G2 Header: CMY-Y104/108/1010C-G	

Notes:

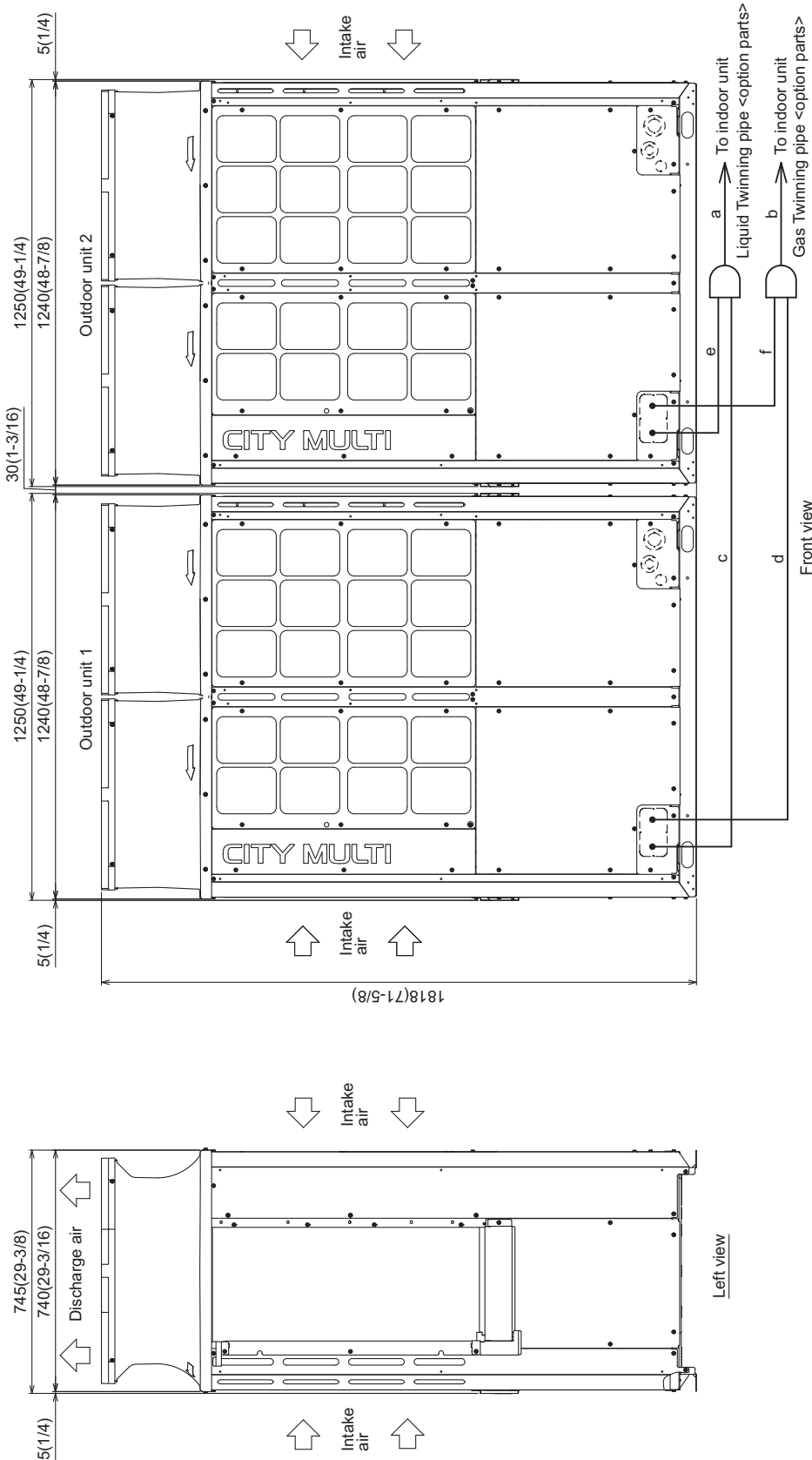
- Cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)
- Heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C W.B.)
- Cooling 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.

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Module: PUHY-HP144TSNU-A-TH - DIMENSIONS



Unit model	Liquid c or e	Gas d or f
HP72	ø9.52(3/8)	ø22.2(7/8)
HP96	ø12.7(1/2)	ø28.58(1-1/8)
HP120	ø12.7(1/2)	ø28.58(1-1/8)

Package unit name	PUHY-HP144TSNU-A	PUHY-HP192TSNU-A	PUHY-HP240TSNU-A
Component unit name	Outdoor unit 1	Outdoor unit 2	Outdoor unit 3
Outdoor Twinning Kit (optional parts)	PUHY-HP72TNU-A	PUHY-HP96TNU-A	PUHY-HP120TNU-A
BC controller	CMY-Y100CBK3	CMY-Y100CBK3	CMY-Y100CBK3
Liquid pipe	a	b	c
Gas pipe	d	e	f

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
- Note 2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane. Be sure to see the Installation Manual for details of Twinning pipe installation.
- Note 3. 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).
- Note 4. Only use the Twinning pipe by Mitsubishi (optional parts).

Unit: mm (in.)

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	Diameter		
	Refrigerant pipe	Service valve	Gas
HP72	Liquid ø5.52(3/8) Brazed *1	Liquid	Gas
HP96	Liquid ø5.52(3/8) Brazed *1 ø12.7(1/2) Brazed *1, *3	Liquid	Gas
HP120	Liquid ø5.52(3/8) Brazed ø12.7(1/2) Brazed *1, *2, *4	Liquid	Gas

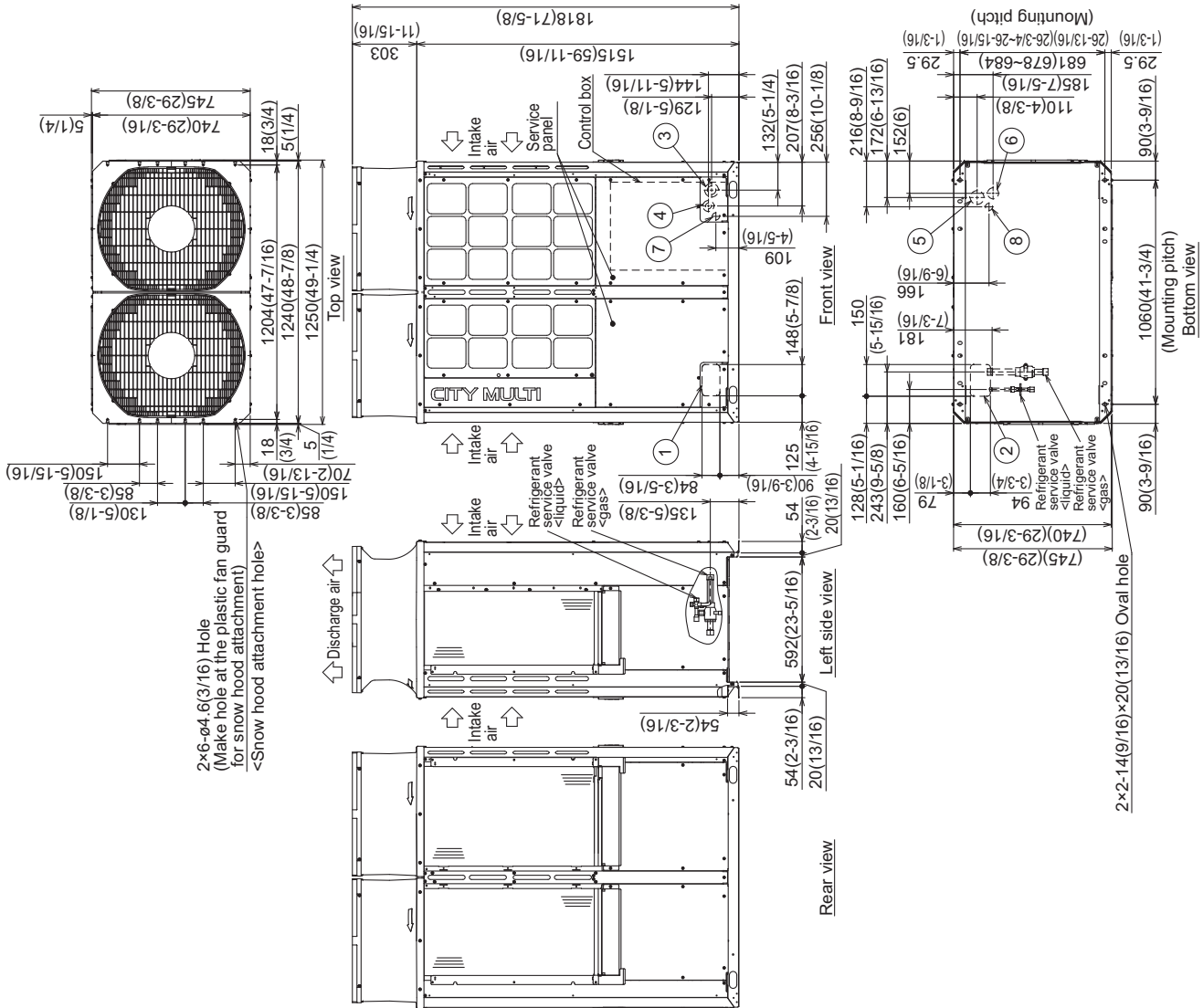
*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

*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
	For pipes	Front through hole	148(5-7/8) × 84(3-5/16) Knockout hole
①		Bottom through hole	150(5-15/16) × 94(3-3/4) Knockout hole
②		Front through hole	ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole
③		Front through hole	ø43.7(1-3/4) or ø22.7(7/8) Knockout hole
④		Bottom through hole	ø65(2-9/16) Knockout hole
⑤		Bottom through hole	ø52(2-1/16) Knockout hole
⑥		Front through hole	ø34(1-3/8) Knockout hole
⑦		Bottom through hole	ø34(1-3/8) Knockout hole



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