

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-HP240TSNU-A	
Indoor Model		Non-Ducted	Ducted
Power source		3-phase 3-wire 208-230 V ±10% 60 Hz	
Cooling capacity *1 (Nominal)	BTU/h	240,000	
		kW	
	Power input	19.37	
		kW	
	(208-230) Current input	59.7-54.0	
		A	
	(Rated)	BTU/h	
		230,000	
Temp. range of cooling	Indoor	59~75°F (15~24°C)	
		W.B.	
	Outdoor	23~126°F (-5~52°C)	
		D.B.	
	(208-230) Current input	69.3-62.7	
		A	
	(Rated)	BTU/h	
		258,000	
Heating capacity *2 (Nominal)	BTU/h	270,000	
		kW	
	Power input	21.38	
		kW	
	(208-230) Current input	65.9-59.6	
		A	
	(Rated)	BTU/h	
		258,000	
Temp. range of heating	Indoor	59~81°F (15~27°C)	
		D.B.	
	Outdoor	-22~60°F (-30~15.5°C)	
		W.B.	
	(208-230) Current input	60.2-54.4	
		A	
	(Rated)	BTU/h	
		258,000	
Indoor unit connectable	Total capacity	50~130% of outdoor unit capacity	
	Model/Quantity	P04~P96/2~50	
Sound power level (measured in anechoic room) *3		dB <A>	
Refrigerant		in. (mm)	
piping diameter		in. (mm)	

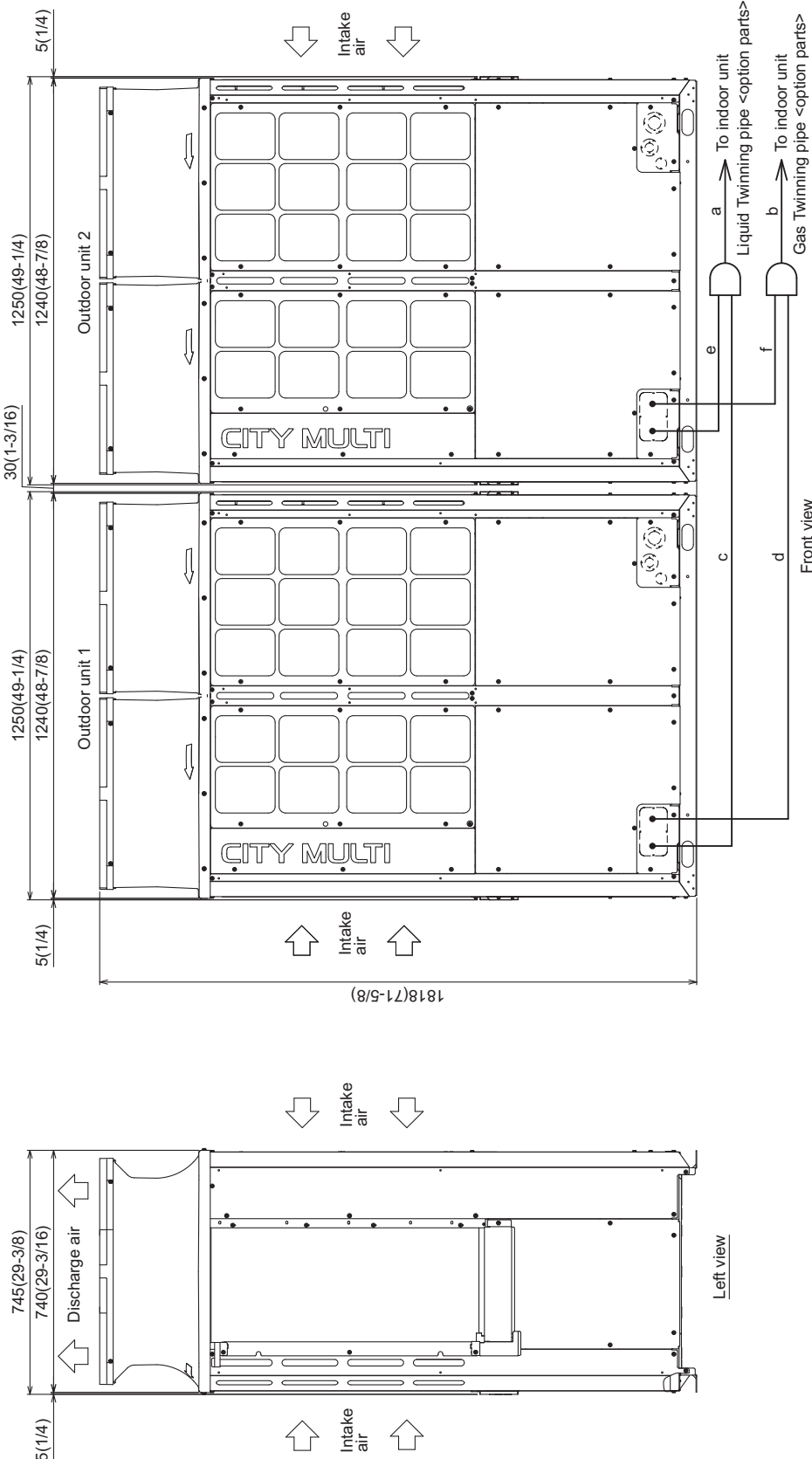
Set Model		PUHY-HP120TNU-A	PUHY-HP120TNU-A
Model		66-60	66-60
Minimum Circuit Ampacity (*)		A	A
Maximum Overcurrent Protection (*)		110-100	110-100
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7,750
		m3/min	220
	Control, Driving mechanism	Inverter-control, Brushless DC motor	Inverter-control, Brushless DC motor
	Motor output	kW	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	6.5 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
		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)	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	LEV and HIC circuit
Net weight		lbs (kg)	655 (297)
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)	1/2 (12.7) Braze
	Gas pipe	in. (mm)	1-1/8 (28.58) Braze
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-HP240TSNU-A-TH - DIMENSIONS



Package unit name	PUHY-HP144TSNU-A	PUHY-HP192TSNU-A	PUHY-HP240TSNU-A
Component unit name	Outdoor unit 1	Outdoor unit 2	Indoor unit
Outdoor Twinning Kit (optional parts)	PUHY-HP72TNU-A	PUHY-HP72TNU-A	PUHY-HP120TNU-A
BC controller	CMY-Y100CBK3	CMY-Y100CBK3	CMY-Y100CBK3
~Twinning pipe	Liquid a	Liquid b	Liquid c
	Gas d	Gas e	Gas f
	ø12.7(1/2)	ø15.88(5/8)	ø28.58(1-1/8)

Twinning pipe-Outdoor unit	Unit model	Liquid c or e	Gas d or f
HP72	HP72	ø9.52(3/8)	ø22.2(7/8)
HP96	HP96	ø12.7(1/2)	ø28.58(1-1/8)
HP120	HP120	ø15.88(5/8)	ø38.1(1-1/2)

- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twinning pipes should not be tilted more than 15 degrees from the horizontal plane.
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-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	Liquid	Gas
HP72	ø5.2(3/8) Brazed *1	ø22.2(7/8) Brazed *1	ø12.7(1/2)	ø28.58(1-1/8)
HP96	ø5.2(3/8) Brazed *1, *3	ø22.2(7/8) Brazed *1, *3	ø12.7(1/2)	ø28.58(1-1/8)
HP120	ø5.2(3/8) Brazed *1, *2, *4	ø22.2(7/8) Brazed *1, *2, *4	ø12.7(1/2)	ø28.58(1-1/8)

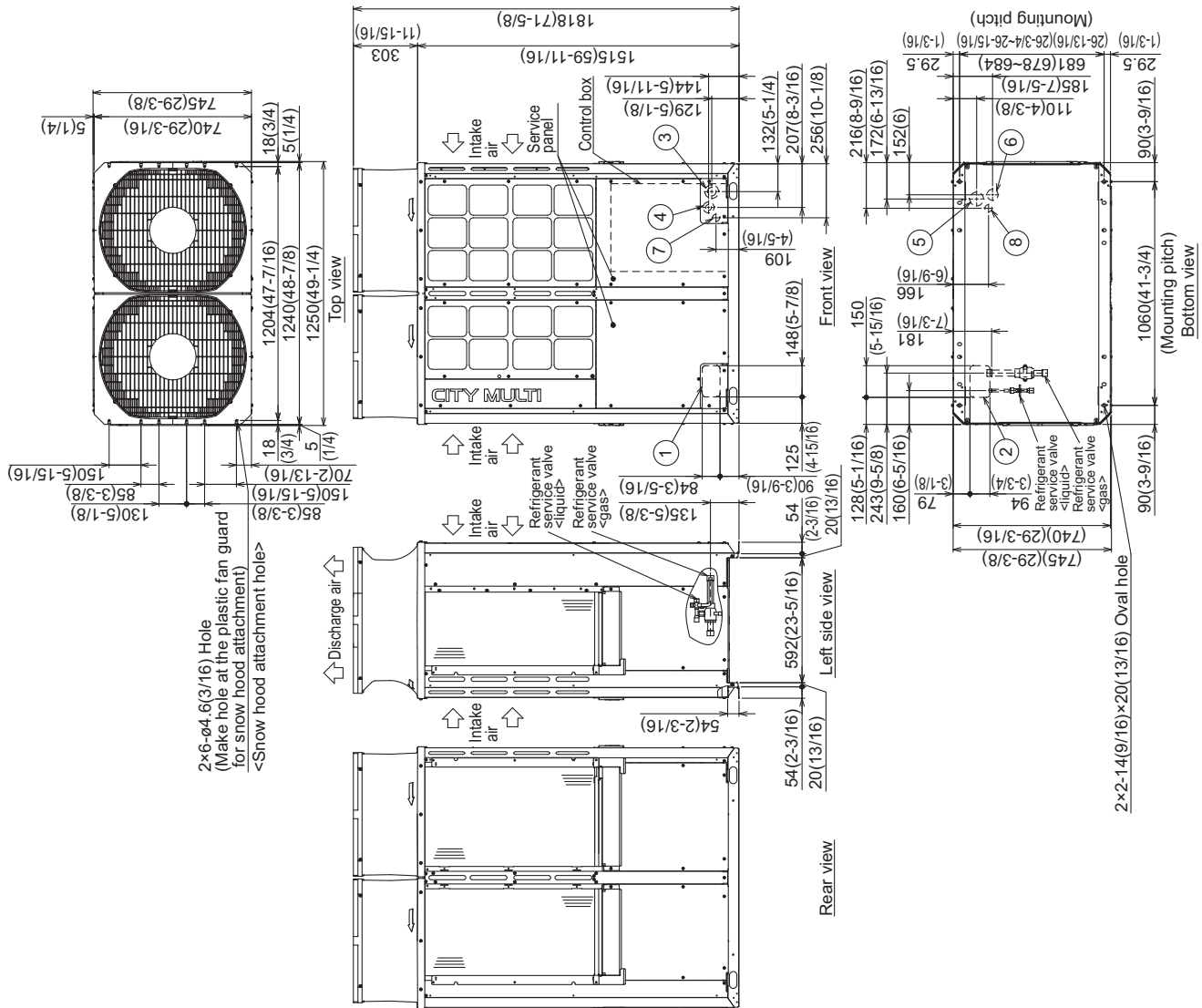
*1 Connect the refrigerant pipe to the service valve according to the Installation Manual.

*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
	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 ø22.2(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	For transmission cables	Bottom through hole	ø34(1-3/8) Knockout hole



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