

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			PURY-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	70.3	
(208-230)	Power input	kW	20.08	
	Current input	A	61.9-56.0	
(Rated)		BTU/h	230,000	
		kW	67.4	
(208-230)	Power input	kW	22.45	22.60
	Current input	A	69.2-62.6	69.7-63.0
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	270,000	
		kW	79.1	
(208-230)	Power input	kW	22.45	
	Current input	A	69.2-62.6	
(Rated)		BTU/h	258,000	
		kW	75.6	
(208-230)	Power input	kW	20.65	20.55
	Current input	A	63.6-57.5	63.3-57.3
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		50~150% of outdoor unit capacity
		Model/Quantity		P04~P96/2~50
Sound power level (measured in anechoic room) *3		dB <A>	87.5/88.5	
Refrigerant		High pressure	in. (mm)	7/8 (22.2) Brazed (1-1/8 (28.58) Brazed for the part that exceeds 65 m)
piping diameter		Low pressure	in. (mm)	1-3/8 (34.93) Brazed

Set Model			
Model		PURY-HP120TNU-A	
Minimum Circuit Ampacity (*)		A	66-60
Maximum Overcurrent Protection (*)		A	110-100
FAN	Type x Quantity		Propeller fan x 2
	Airflow rate	cfm	9,550
		m3/min	270
		L/s	4,500
	Control, Driving mechanism		Inverter-control, Brushless DC motor
	Motor output	kW	0.46+0.46
Compressor	*4 External static press.		0 in.WG (0 Pa)
	Type x Quantity		Inverter scroll hermetic compressor x 1
	Starting method		Inverter
	Motor output	kW	7.8
	Case heater	kW	-
Lubricant		MEL46EH	
External finish		Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>	Pre-coated galvanized steel sheet <MUNSELL 5Y 8/1>
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-heat protection, Over-current protection
	Fan motor		-
Refrigerant	Type x original charge		R410A x 23 lbs + 12 oz (10.8 kg)
	Control		Indoor LEV and BC controller
Net weight		lbs (kg)	662 (300)
Heat exchanger		Salt-resistant cross fin & copper tube	
HIC circuit (HIC: Heat Inter-Changer)		-	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)	
Optional parts	Outdoor Twinning kit: CMY-R200NCBK		
	Joint: CMY-Y102SS-G2,CMY-Y102LS-G2,CMY-Y202S-G2,CMY-R160-J1		
	CMY-R201,202,203,204,205,306S-G, CMY-R302,303,304,305S-G1		
	Main BC controller: CMB-P108,1012,1016NU-JA1,CMB-P1016NU-KA1		
		Sub BC controller: CMB-P104,108NU-KB1	

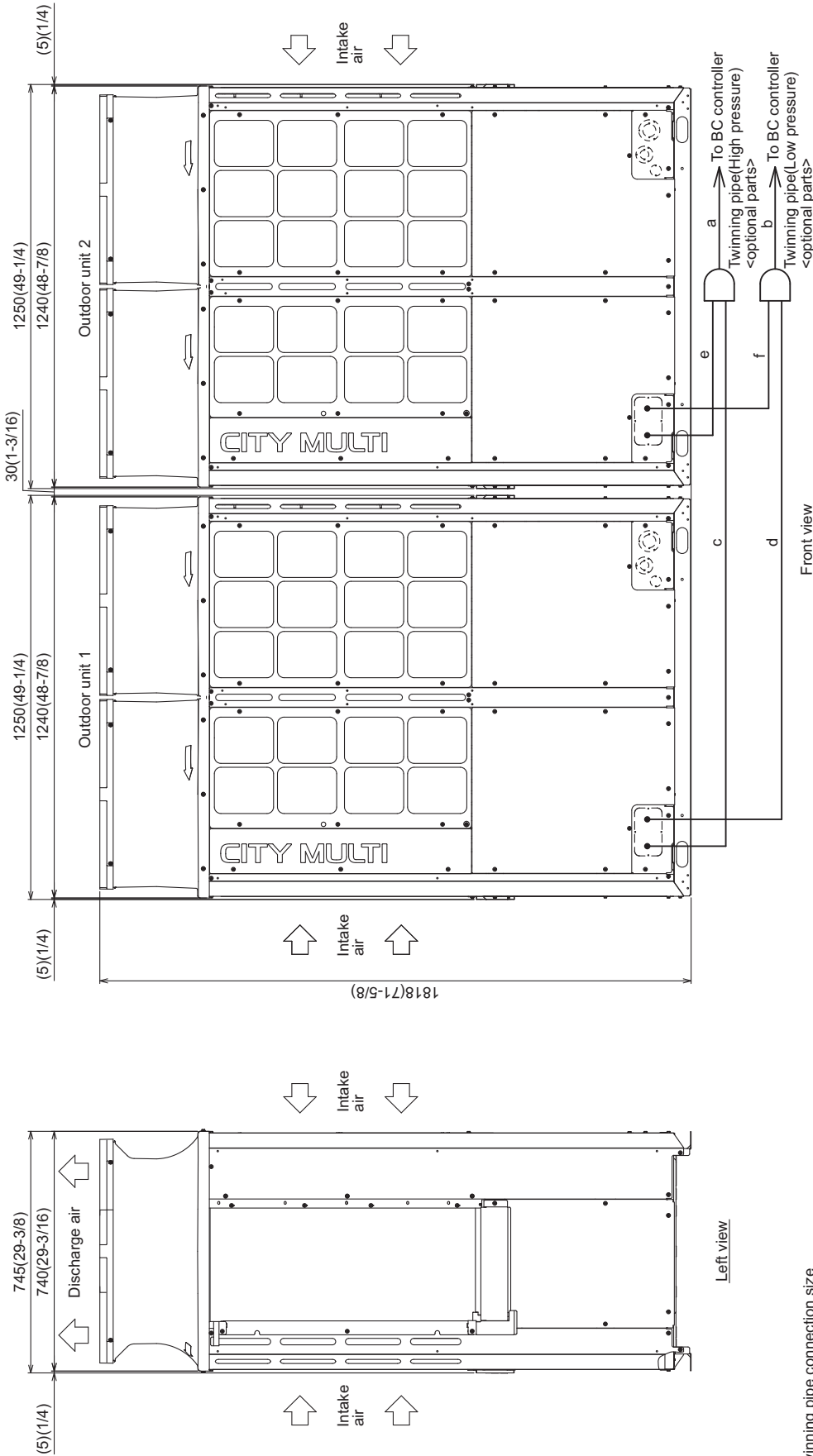
Notes:

1. Nominal cooling conditions (Test conditions are based on AHR1 1230)
Indoor: 80°F DB, 67°F WB, (26.7°C DB, 19.4°C WB), Outdoor: 95°F DB, (35°C DB)
2. Nominal heating conditions (Test conditions are based on AHR1 1230)
Indoor: 70°F DB, (21.1°C DB), Outdoor: 47°F DB, 43°F WB, (8.3°C DB, 6.1°C WB)
3. Cooling mode/Heating mode
4. 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: PURY-HP240TSNU-A - DIMENSIONS



Twining pipe connection size

Package unit name	PURY-HP144TSNU-A	PURY-HP192TSNU-A	PURY-HP240TSNU-A
Component unit name	Outdoor unit 1	PURY-HP72TNU-A	PURY-HP120TNU-A
Outdoor Twining Kit (optional parts)	CMY-R100NCBK	CMY-R200NCBK	CMY-R200NCBK
BC controller	High pressure a	High pressure b	High pressure c
Twining pipe	Low pressure d	Low pressure e	Low pressure f

* When the piping length is 65m (213ft) or longer, use the ø28.58 (1-1/8) pipe for the part that exceeds 65m (213ft).

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

Unit model	High pressure c or e	Low pressure d or f
HP72	ø15.88 (5/8)	ø19.05 (3/4)
HP96	ø19.05 (3/4)	ø22.2 (7/8)
HP120	ø19.05 (3/4)	ø28.58 (1-1/8)

Unit: mm (in.)

Module: PURY-HP120TNU-A - DIMENSIONS

Unit: mm (in.)

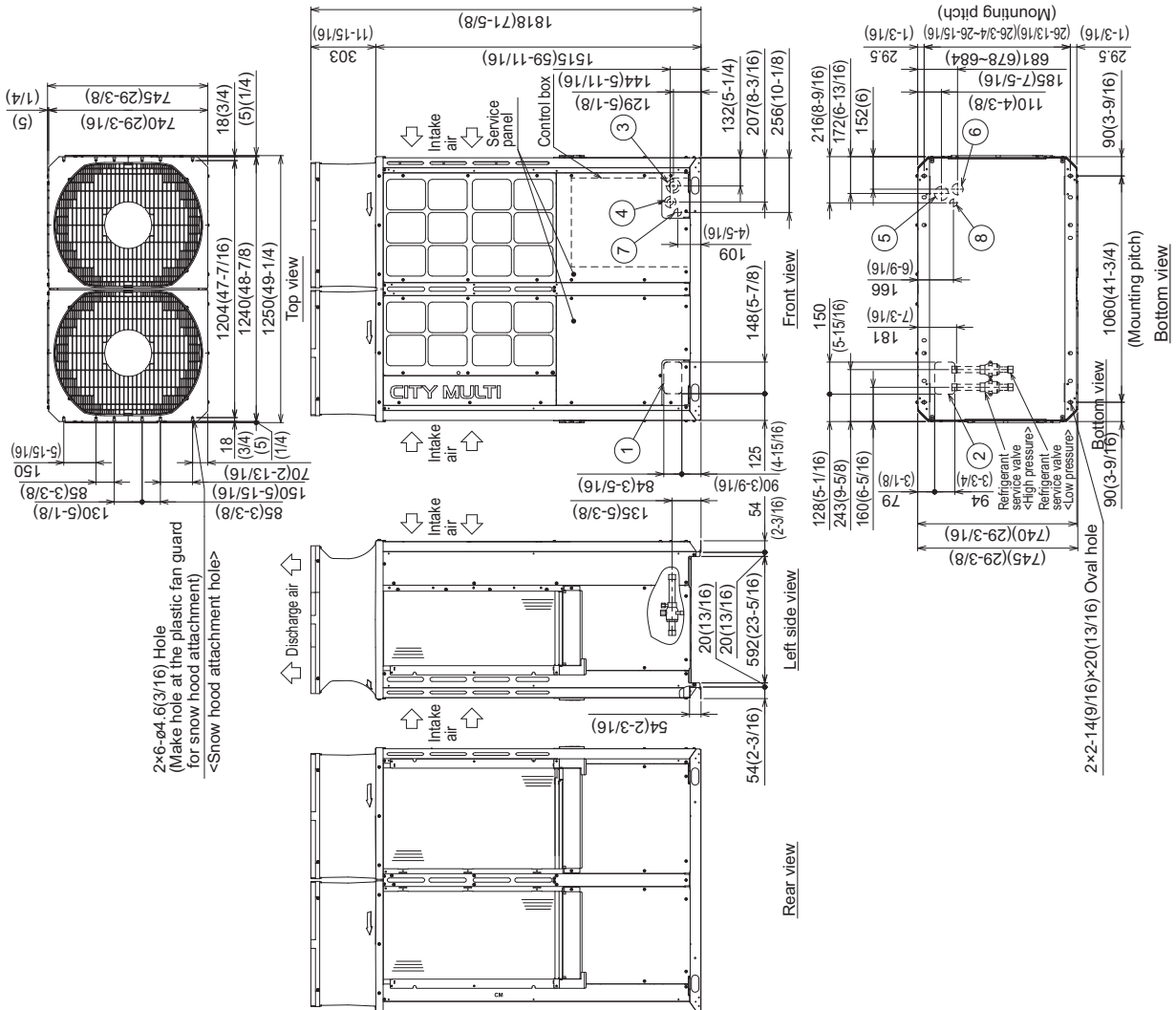
- Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Refrigerant pipe		Diameter	
	High pressure	Low pressure	High pressure	Low pressure
HP72	ø13.5(3/8) Brazed*1	ø19.05(3/4) Brazed*1	ø28.58(1-1/8)	ø28.58(1-1/8)
HP96	ø19.05(3/4) Brazed*1	ø22.2(7/8) Brazed*1	ø28.58(1-1/8)	ø28.58(1-1/8)
HP120	ø19.05(3/4) Brazed*1	ø28.58(1-1/8) Brazed	ø28.58(1-1/8)	ø28.58(1-1/8)

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

NO.	Usage	Specifications	
		Front through hole	Bottom through hole
①	For pipes	148(5-7/8) × 84(3-5/16) Knockout hole	150(5-15/16) × 94(3-3/4) Knockout hole
②		150(5-15/16) × 94(3-3/4) Knockout hole	150(5-15/16) × 94(3-3/4) Knockout hole
③	For wires	Front through hole ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole	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	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	Bottom through hole ø65(2-9/16) Knockout hole
⑥		Bottom through hole ø52(2-1/16) Knockout hole	Bottom through hole ø52(2-1/16) Knockout hole
⑦	For transmission cables	Front through hole ø34(1-3/8) Knockout hole	Front through hole ø34(1-3/8) Knockout hole
⑧		Bottom through hole ø34(1-3/8) Knockout hole	Bottom through hole ø34(1-3/8) Knockout hole



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