

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-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)	(Rated)	Power input	kW	11.92			
		Current input	A	36.7-33.2			
	(Rated)	BTU/h	138,000				
		kW	40.4				
	(208-230)	Power input	kW	11.65		12.10	
		Current input	A	35.9-32.4		37.3-33.7	
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)	(Rated)	Power input	kW	12.5			
		Current input	A	38.5-34.8			
	(Rated)	BTU/h	152,000				
		kW	44.5				
	(208-230)	Power input	kW	11.22		11.75	
		Current input	A	34.6-31.2		36.2-32.7	
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~P96/1~36			
Sound power level (measured in anechoic room) *3			dB <A>	78.5/80.0			
Refrigerant		High pressure	in. (mm)	7/8 (22.2) Brazed			
piping diameter		Low pressure	in. (mm)	1-1/8 (28.58) Brazed			

Set Model

Model		PURY-HP72TNU-A	PURY-HP72TNU-A
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 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 4.0	4.0
	Case heater	kW -	-
	Lubricant	MEL46EH	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	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-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Fan motor	-	-
Refrigerant	Type x original charge	R410A x 17 lbs + 10 oz (8.0 kg)	R410A x 17 lbs + 10 oz (8.0 kg)
	Control	Indoor LEV and BC controller	
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)		-	-
Pipe between unit and distributor	High pressure	in. (mm) 5/8 (15.88) Braze	5/8 (15.88) Braze
	Low pressure	in. (mm) 3/4 (19.05) Braze	3/4 (19.05) Braze
Defrosting method		Auto-defrost mode (Reversed refrigerant cycle)	
Optional parts		Outdoor Twinning kit: CMY-R100NCBK Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1 CMY-R201, 202, 203, 204, 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:

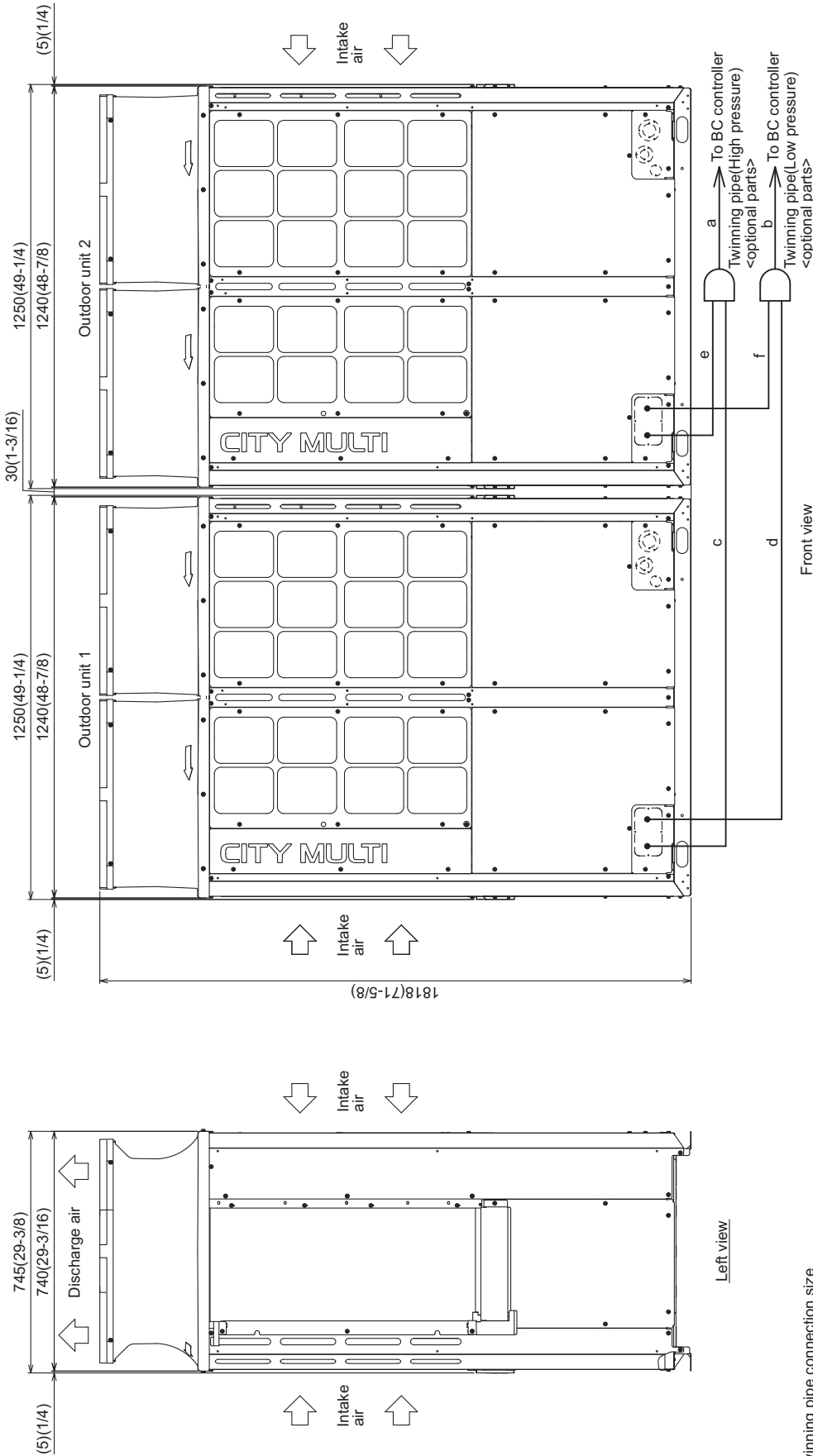
- Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80°F D.B./67°F W.B. (26.7°C D.B./19.4°C W.B.), Outdoor: 95°F D.B. (35°C D.B.)
- Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70°F D.B. (21.1°C D.B.), Outdoor: 47°F D.B./43°F W.B. (8.3°C D.B./6.1°C 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: PURY-HP144TSNU-A - DIMENSIONS



Unit model	High pressure	Low pressure
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)

Twinning pipe connection size

Package unit name	PURY-HP144TSNU-A	PURY-HP192TSNU-A	PURY-HP240TSNU-A
Component unit name	PURY-HP72TNU-A	PURY-HP96TNU-A	PURY-HP120TNU-A
Outdoor unit name	PURY-HP72TNU-A	PURY-HP96TNU-A	PURY-HP120TNU-A
Outdoor Twinning Kit (optional parts)	CMY-R100NCBK	CMY-R200NCBK	
BC controller	High pressure a	ø22.2(7/8)	ø28.58(1-1/8) *
~ Twinning pipe	Low pressure b	ø28.58(1-1/8)	ø34.93(1-3/8)

* 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. 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.
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).
4. Only use the Twinning pipe by Mitsubishi (optional parts).

Module: PURY-HP72TNU-A - DIMENSIONS

Unit: mm (in.)

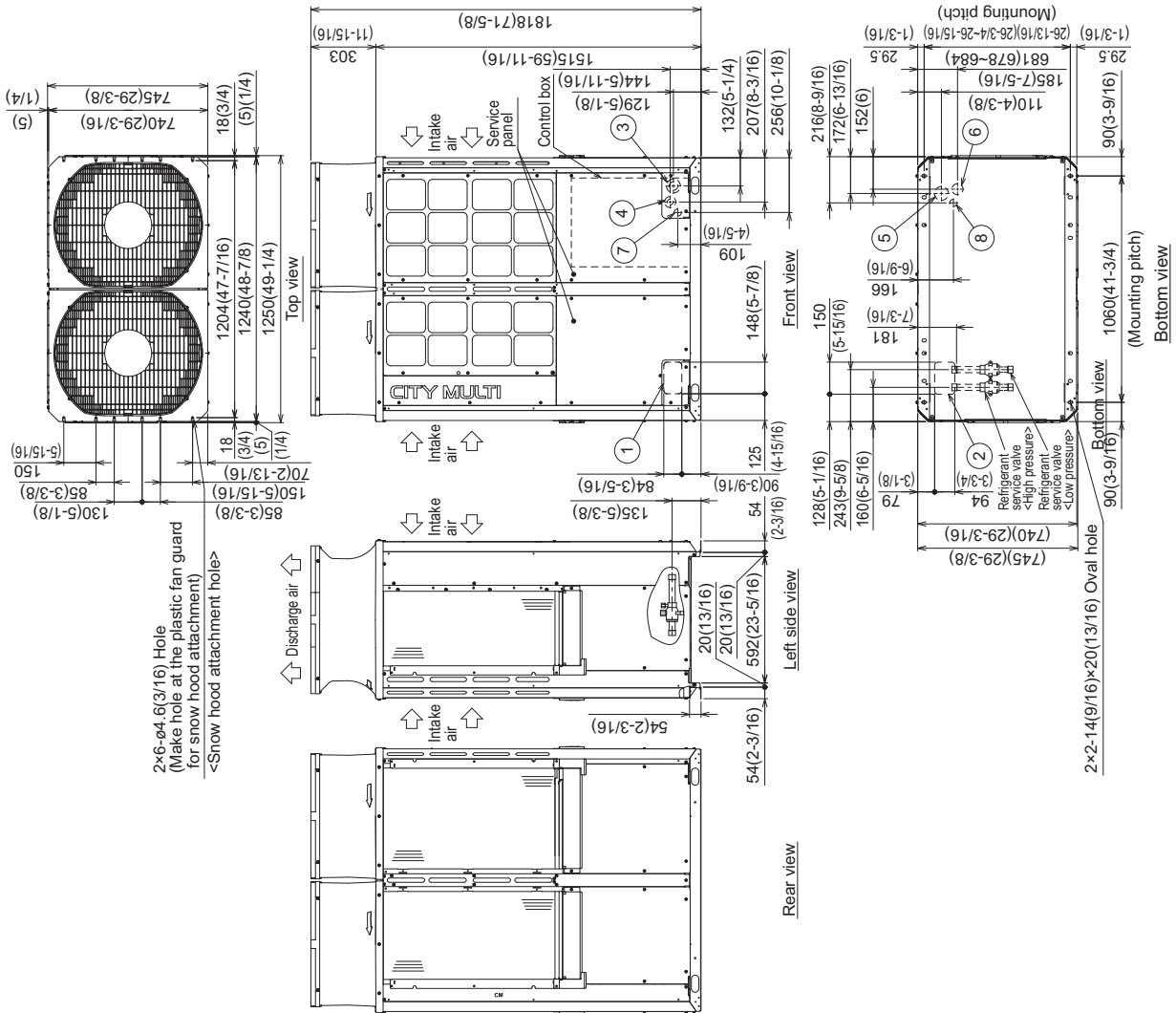
Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

Connecting pipe specifications

Model	Refrigerant pipe		Diameter	
	High pressure	Low pressure	High pressure	Low pressure
HP72	ø13.5(3/8) Brazed*1	ø19.0(3/4) Brazed*1	ø28.5(1-1/8)	ø28.5(1-1/8)
HP96	ø19.0(3/4) Brazed*1	ø22.7(7/8) Brazed*1	ø28.5(1-1/8)	ø28.5(1-1/8)
HP120	ø19.0(3/4) Brazed*1	ø28.5(1-1/8) Brazed*1	ø28.5(1-1/8)	ø28.5(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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