

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.

Notes:

- 1.Nominal cooling conditions (Test conditions are based on AHRI 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 AHRI 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.

Outdoor Model			PURY-HP240TSNU-A1	
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) Braze (1-1/8 (28.58) Braze for the part that exceeds 65 m)	
piping diameter	Low pressure	in. (mm)	1-3/8 (34.93) Braze	

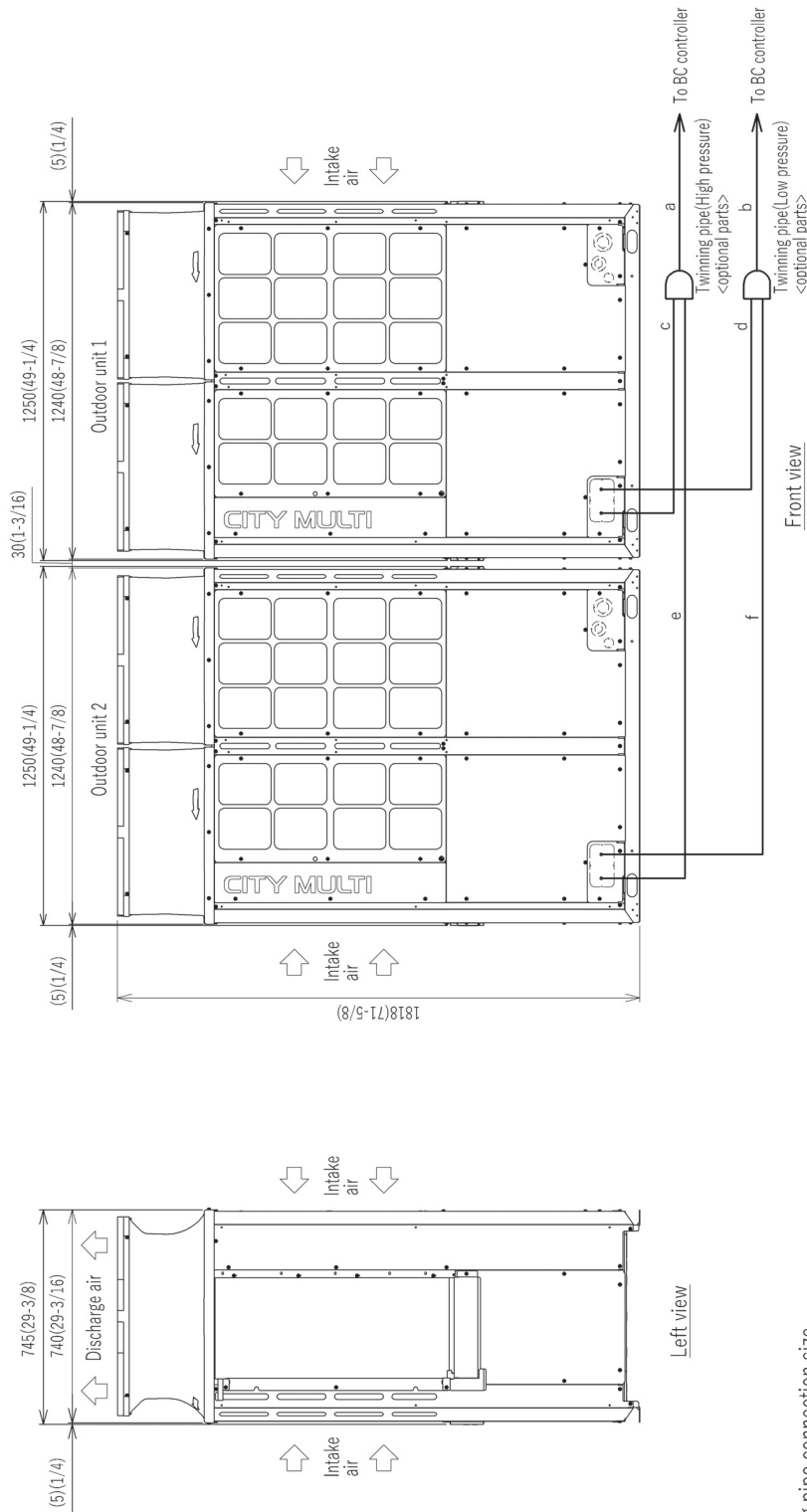
Set Model

Model			PURY-HP120TNU-A1	PURY-HP120TNU-A1	
Minimum Circuit Ampacity (*)		A	66-60	66-60	
Maximum Overcurrent Protection (*)		A	110-100	110-100	
FAN	Type x Quantity		Propeller fan x 2	Propeller fan x 2	
		Airflow rate	cfm	9,550	9,550
			m3/min	270	270
			L/s	4,500	4,500
	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	7.8	7.8	
	Case heater	kW	0.045	0.045	
	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 23 lbs + 12 oz (10.8 kg)	R410A x 23 lbs + 12 oz (10.8 kg)	
	Control		Indoor LEV and BC controller		
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)			-	-	
Pipe between unit and distributor	High pressure	in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed	
	Low pressure	in. (mm)	1-1/8 (28.58) Brazed	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-KA2			
		Sub BC controller: CMB-P104,108NU-KB2			

* 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-A1 - DIMENSIONS



Unit: mm (in.)

Twining pipe connection size

Package unit name	HP144T/YSNU	HP192T/YSNU	HP240T/YSNU
Component unit name	HP72T/YSNU	HP96T/YSNU	HP120T/YSNU
Outdoor unit 1	HP72T/YSNU	HP96T/YSNU	HP120T/YSNU
Outdoor unit 2	HP72T/YSNU	HP96T/YSNU	HP120T/YSNU
Outdoor Twining Kit (optional parts)	CMY-R100NCBK	CMY-R200NCBK	CMY-R200NCBK
BC controller	CMY-R100NCBK	CMY-R200NCBK	CMY-R200NCBK
~Twining pipe	High pressure a	High pressure b	High pressure c
Twining pipe	Low pressure b	Low pressure c	Low pressure d
~Outdoor unit 1	High pressure c	High pressure d	High pressure e
Twining pipe	Low pressure d	Low pressure e	Low pressure f
~Outdoor unit 2	High pressure e	High pressure f	High pressure g
Twining pipe	Low pressure f	Low pressure g	Low pressure h

* When the piping length is 65m (213ft) or longer, use the $\phi 28.58(1-1/8)$ pipe for the part that exceeds 65m (213ft).

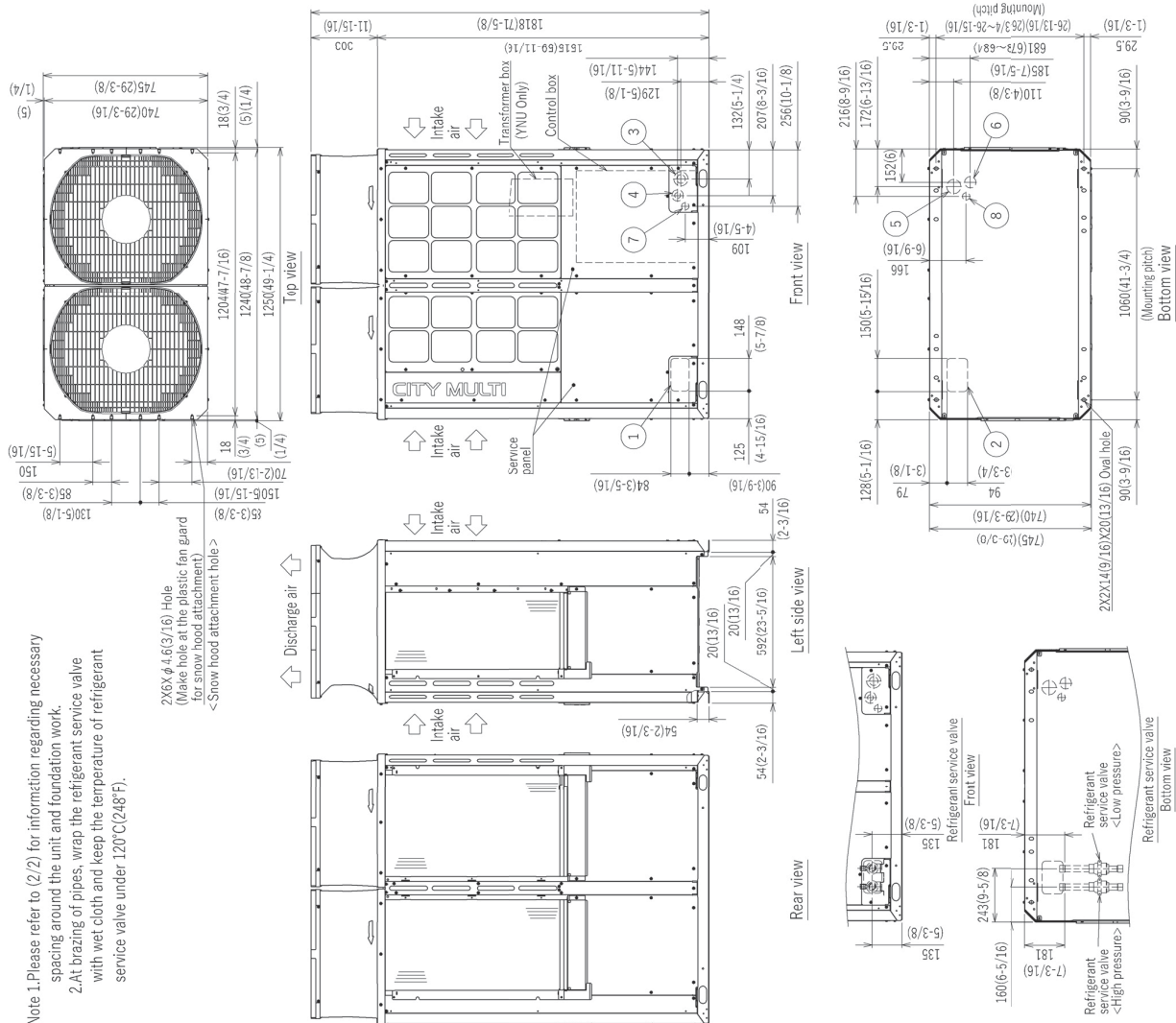
- Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
- Note 2. Twining pipes must be installed horizontally using a level vessel.
- Note 3. The pipe section before the Twining pipe (section "a" and "b" in the figure) must have at least 500mm (19-11/16)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

Module: PURY-HP120TNU-A1 - DIMENSIONS

Connecting pipe specifications

Model	Diameter		
	Refrigerant pipe *1	High pressure	Service valve
HP72	φ15.88(5/8) Braze	φ19.05(3/4) Low pressure	High pressure φ28.58(1-1/8) Low pressure φ28.58(1-1/8)
HP96	φ19.05(3/4) Braze	φ22.27(7/8) Braze	φ28.58(1-1/8) High pressure φ28.58(1-1/8) Low pressure φ28.58(1-1/8)
HP120	φ19.05(3/4) Braze	φ28.58(1-1/8) Braze	φ28.58(1-1/8) High pressure φ28.58(1-1/8) Low pressure φ28.58(1-1/8)

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



Unit: mm (in.)

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	For transmission cables	φ34(1-3/8) Knockout hole
⑧	Bottom through hole	φ34(1-3/8) Knockout hole

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.