

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-A1	
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	
	Power input	kW	11.92	
		(208-230) Current input	A	36.7-33.2
	(Rated)	BTU/h	138,000	
		kW	40.4	
	Power input	kW	11.65	12.10
		(208-230) Current input	A	35.9-32.4
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	
	Power input	kW	12.5	
		(208-230) Current input	A	38.5-34.8
	(Rated)	BTU/h	152,000	
		kW	44.5	
	Power input	kW	11.22	11.75
		(208-230) Current input	A	34.6-31.2
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>	
Refrigerant	High pressure	in. (mm)	7/8 (22.2) Braze	
piping diameter	Low pressure	in. (mm)	1-1/8 (28.58) Braze	

Set Model

Model		PURY-HP72TNU-A1	PURY-HP72TNU-A1
Minimum Circuit Ampacity (*)		A	55-49
Maximum Overcurrent Protection (*)		A	90-80
FAN	Type x Quantity	Propeller fan x 2	Propeller fan x 2
	Airflow rate	cfm	7,400
		m3/min	210
	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	4.0
	Case heater	kW	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
		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-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)	602 (273)
Heat exchanger		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
	Low pressure	in. (mm)	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-KA2 Sub BC controller: CMB-P104, 108NU-KB2	

Notes:

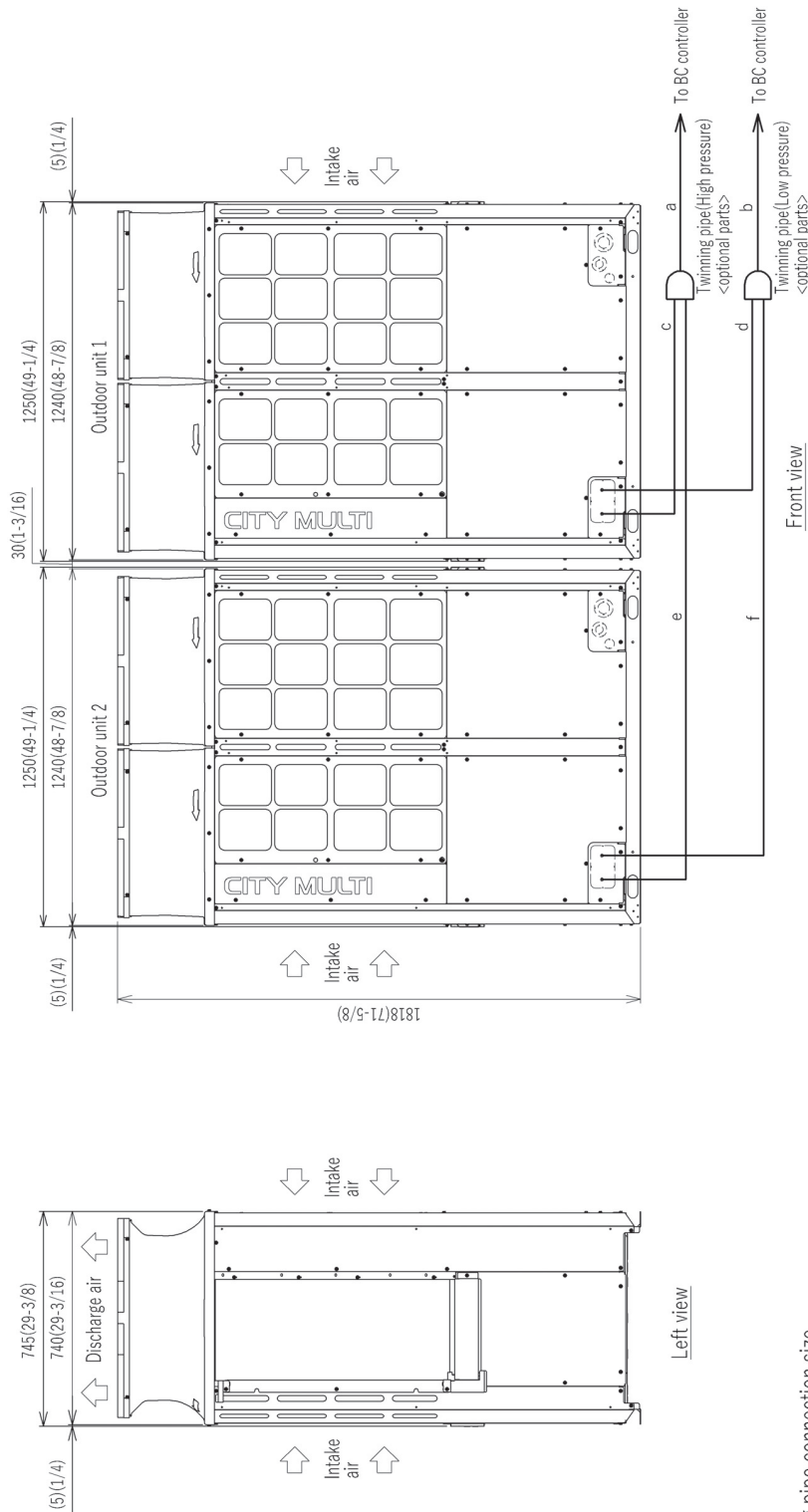
- Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 80 °F D.B./67 °F W.B. (26.7 °C D.B./19.4 °C W.B.), Outdoor: 95 °F D.B. (35 °C D.B.)
- Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 70 °F D.B. (21.1 °C D.B.), Outdoor: 47 °F D.B./43 °F W.B. (8.3 °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-A1 - DIMENSIONS



Twinning 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 Twinning 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
~Twining pipe	High pressure c	High pressure d	High pressure e
~Twining pipe	Low pressure d	Low pressure e	Low pressure f
~Twining pipe	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. Twinning pipes must be installed horizontally using a level vessel. 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: PURY-HP72TNU-A1 - DIMENSIONS

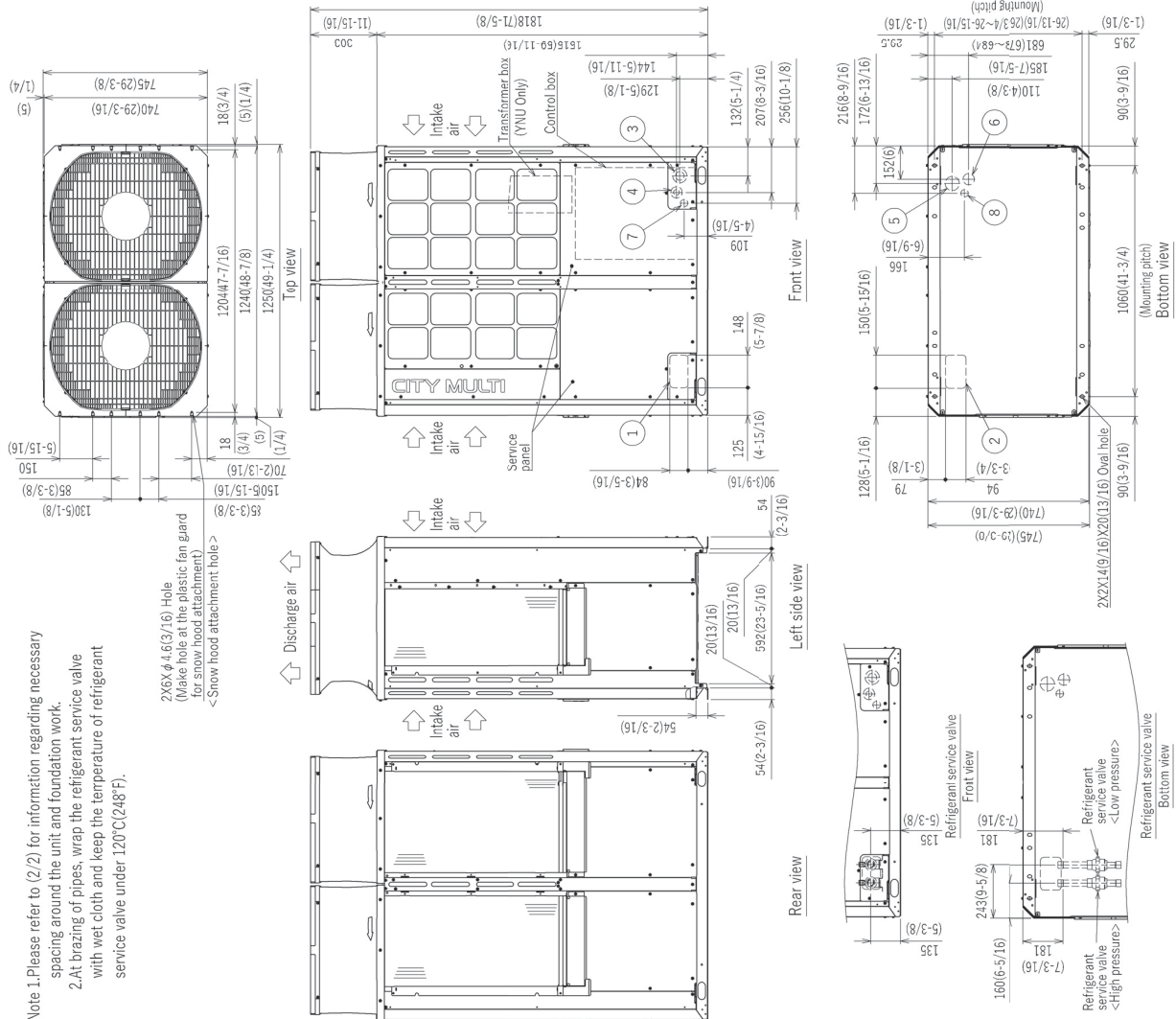
Connecting pipe specifications

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

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

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

Unit: mm (in.)



Note 1. Please refer to (2/2) 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).

2X6X4.6(3/16) Hole
 (Make hole at the plastic fan guard for snow hood attachment)
 <Snow hood attachment hole>

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