CITYMULTI® Outdoor Unit: 20-TON PURY-P240YSKMU-U (-BS)

(Consists of Two PURY-P120YKMU-U (-BS), and One CMY-R100XLCBK Twinning Kit)

MITSUBISHI ELECTRIC

Job Name:

Schedule Reference: | Date:

OUTDOOR VRF HEAT PUMP WITH HEAT RECOVERY SYSTEM FEATURES

- Assembled in USA
- INVERTER-driven compressor
- Air-source, simultaneous cooling and heating
- Long line lengths - for details see Engineering Manual
- Connects to CITY MULTI indoor units
- Controlled via CITY MULTI Controls Network

UNIT OPTION

- □ Standard Model……PURY-P240YSKMU-U
- □ Seacoast (BS) Model……PURY-P240YSKMU-U-BS

OPTIONAL PARTS

- ■ Twinning Kit (required).....CMY-R100XLCBK
- □ Joint Kit.....for details see Pipe Accesories Submittal
- □ BC Controller.....for details see BC Controller Submittals
- □ Low Ambient Kit .....for details see Low Ambient Kit Submittal
- □ Snow/Hail Guards Kit.....for details see Snow/Hail Guards Kit Submittal

Specifications		System	Module 1	Module 2
Unit Type		PURY-P240YSKMU-U (-BS)	PURY-P120YKMU-U (-BS)	PURY-P120YKMU-U (-BS)
Nominal Cooling Capacity (460V)	Btu/h	240,000	120,000	120,000
Nominal Heating Capacity (460V)	Btu/h	270,000	135,000	135,000
Operating Temperature Range *1	Cooling (Outdoor) *2	Refer to Module Data	23~115° F (-5~46° C) DB	
	Heating (Outdoor)		-4~60° F (-20~15.5° C) WB	
External Dimensions (H x W x D)	In. (mm)	Refer to Module Data	64-31/32 x 68-29/32 x 29-5/32 (1,650 x 1,750 x 740)	64-31/32 x 68-29/32 x 29-5/32 (1,650 x 1,750 x 740)
Net Weight	Lbs. (kg)	1,486 (674)	743 (337)	743 (337)
External Finish		Refer to Module Data	Pre-coated galvanized steel sheet	
Electrical Power Requirements	Voltage, Phase, Hertz	Refer to Module Data**	460V, 3-Phase, 60Hz	
Minimum Circuit Ampacity (MCA)	A	Refer to Module Data**	21	21
Maximum Fuse Size	A	Refer to Module Data**	25	25
Piping Diameter				
From Twinning Kit to Indoor Units (Brazed) (In. / mm)	Liquid (High Pressure)	1-1/8 (28.58) Brazed	Refer to System Data	
	Gas (Low Pressure)	1-3/8 (34.93) Brazed		
Max. Total Refrigerant Line Length	Ft.	2,625	Refer to System Data	
Max. Refrigerant Line Length (Between ODU & IDU)	Ft.	541		
Max. Control Wiring Length	Ft.	1,650		
Indoor Unit	Total Capacity	50~150% of ODUs	Refer to System Data	
	Model / Quantity	P06~P96/2~50 (Max. No. Connectable Branches: 48)	Refer to System Data	
Sound Pressure Level	dB(A)	63	Refer to System Data	
Fan				
Type x Quantity		Refer to Module Data	Propeller fan x 2	Propeller fan x 2
Airflow Rate	CFM		11,300	11,300
External Static Pressure	In. WG	Refer to Module Data	Selectable; 0, 0.12 or 0.24"WG; factory set to 0"W.G.	
Compressor Operating Range		7% to 100%	Refer to System Data	
Compressor Type x Quantity		Refer to Module Data	Inverter-driven Scroll Hermetic x 1	Inverter-driven Scroll Hermetic x 1
Refrigerant		Refer to Module Data	R410A x 26 lbs + 1 oz (11.8 kg)	R410A x 26 lbs + 1 oz (11.8 kg)
Protection Devices	High Pressure	Refer to Module Data	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		Thermal switch	Thermal switch
AHRI Ratings (Ducted/Non-Ducted)	EER	10.9 / 10.9	Refer to System Data	
	IEER	17.8 / 18.5		
	COP	3.38 / 3.42		
Simultaneous Rating (Ducted/Non-Ducted)	SCHE *3	16.46 / 18.60	Refer to System Data	

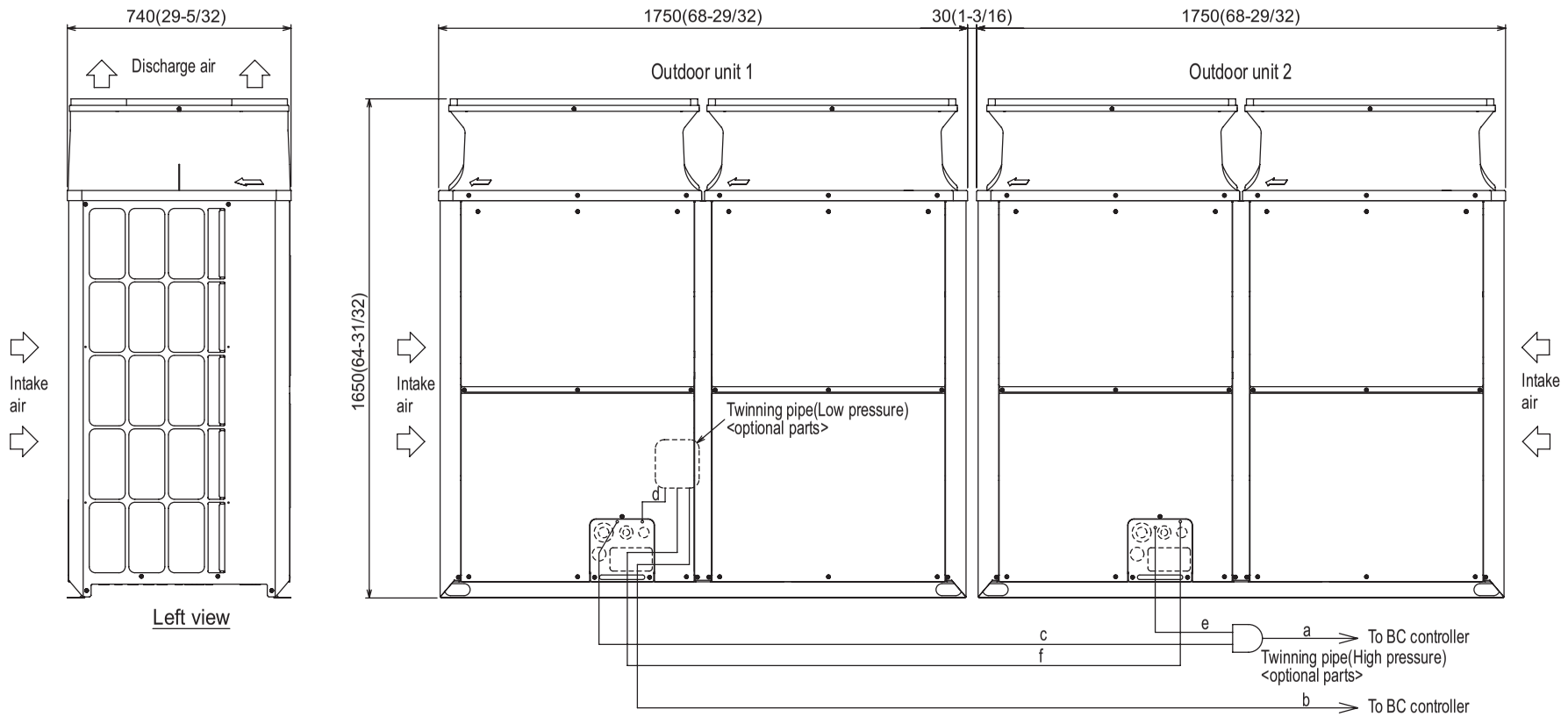
Blue Fin Anti-corrosion Protection: Cellulose- and polyurethane-resin coating treatment applied to condenser coil that protects it from air contaminants
Standard: ≥1µm thick; Salt Spray Test Method - no unusual rust development to 480 hours.
Seacoast (BS): ≥1µm thick; Salt Spray Test Method - no unusual rust development to 960 hours.

NOTES:

*1. Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region.
*2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.
*3. Simultaneous Cooling and Heating Efficiency
** Each individual module requires a separate electrical connection. Refer to electrical data for each individual module.

Specifications are subject to change without notice.

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Twinning pipe connection size

Package unit name				PURY-P240YSKMU	PURY-P264YSKMU	PURY-P288YSKMU
Component unit name	Outdoor unit 1			PURY-P120YKMU	PURY-P144YKMU	PURY-P144YKMU
	Outdoor unit 2			PURY-P120YKMU	PURY-P120YKMU	PURY-P144YKMU
Outdoor Twinning Kit(optional parts)				CMY-R100XLCBK		
BC controller~Twinning pipe		High pressure	a	ø28.58(1-1/8)		
		Low pressure	b	ø34.93(1-3/8)		

	Unit model	P240				P264				P288			
	Component unit model	P120		P120		P144		P120		P144		P144	
Twinning Kit ~Outdoor unit	High pressure	c	ø19.05(3/4)	e	ø19.05(3/4)	c	ø22.2(7/8)	e	ø19.05(3/4)	c	ø22.2(7/8)	e	ø22.2(7/8)
	Low pressure	d	- (Note 5)	f	ø28.58(1-1/8)	d	- (Note 5)	f	ø28.58(1-1/8)	d	- (Note 5)	f	ø28.58(1-1/8)

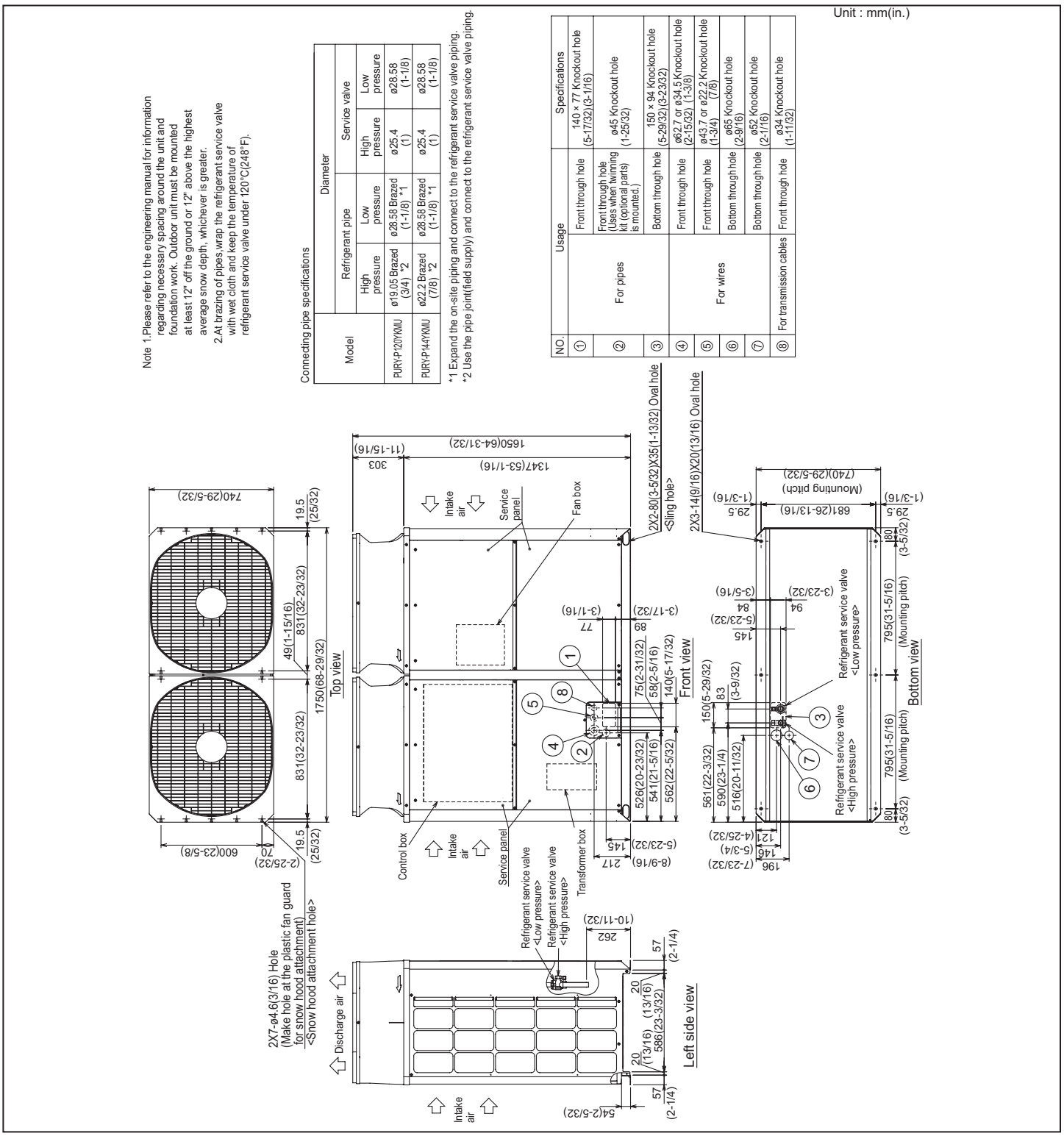
Note 1.Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2.Twinning pipe (High pressure) should not be tilted more than 15 degrees from the horizontal plane.
Be sure to see the Installation Manual for details of Twinning pipe installation.
3.The pipe section before the Twinning pipe (section "a" 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).
5.Connect the outdoor unit 1 with the Twinning pipe (Low pressure) (section "d" in the figure).

Unit : mm(in.)

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Model: PURY-P120YKMU-U (-BS) – DIMENSIONS

Unit : mm(in.)



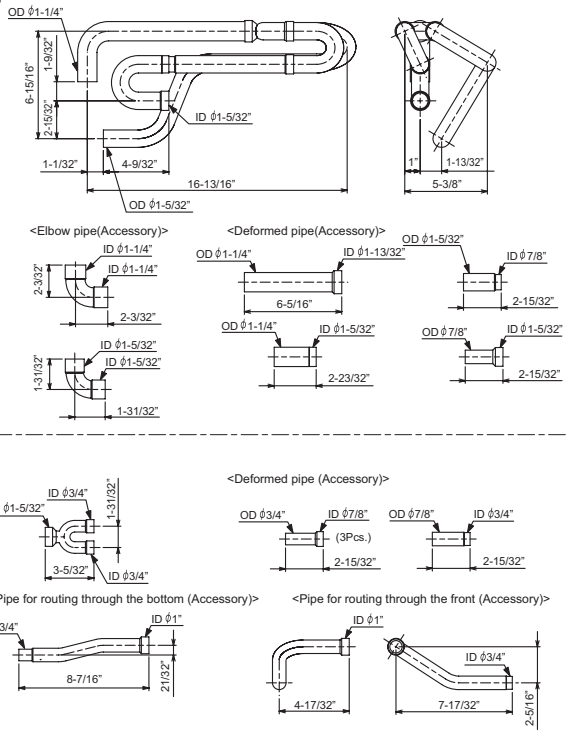
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Twinning Kit: CMY-R100XLCBK

CMY-R100XLCBK

unit : inch

Low-pressure pipe twinning kit



High-pressure twinning pipe

Notes:

AHRI CERTIFIED www.ahridirectory.org Variable Refrigerant Flow (VRF) Multi-Split AC and HP AHRI Standard 1230

C ETL LISTED US Intertek

INVERTER

R410A

MITSUBISHI ELECTRIC

COOLING & HEATING

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www.mehvac.com

FORM# PURY-P240YSKMU-U (-BS) - 201407

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