

Job Name: _____ Date: _____
 System Reference: _____



OUTDOOR VRF HEAT PUMP WITH HEAT RECOVERY SYSTEM

UNIT OPTION

Standard Model..... PURY-P288YSLMU-A
 Seacost (BS) model..... PURY-P288YSLMU-A-BS

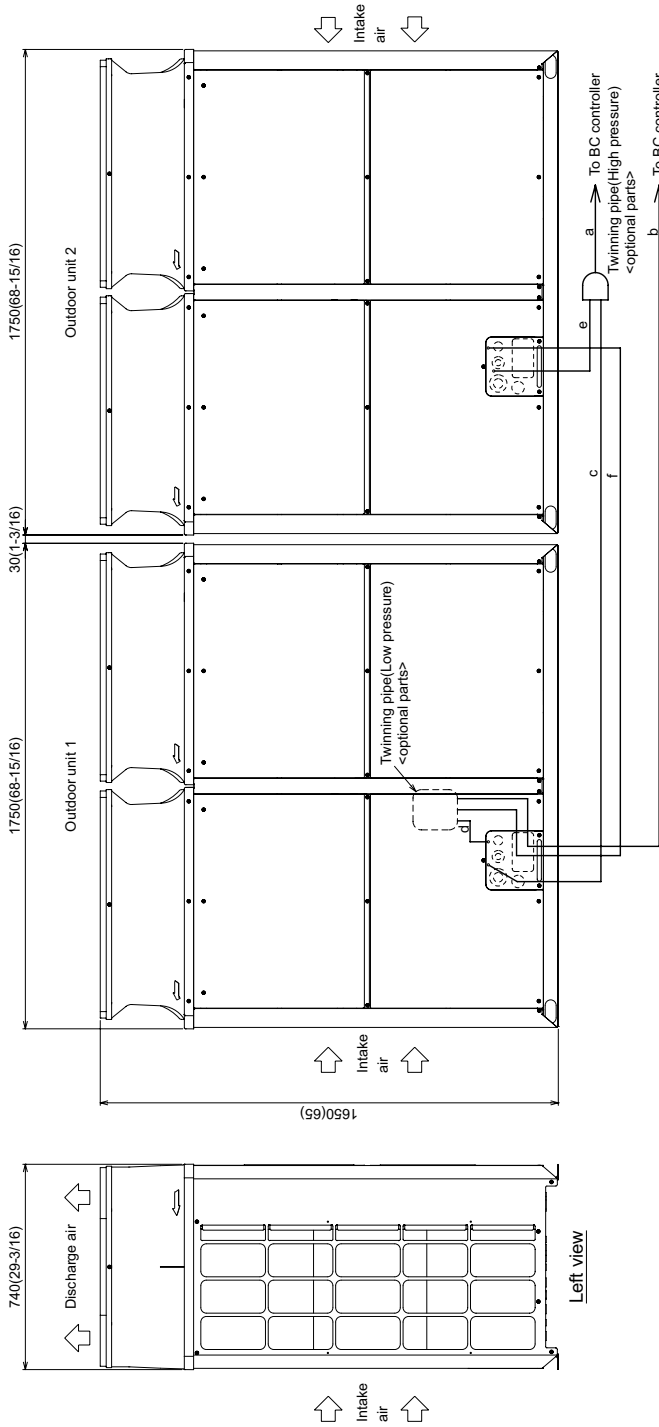
ACCESSORIES

Twinning Kit (required)..... CMY-ER200CBK
 Joint Kit For details see Pipe Accessories Submittal
 BC Controller (Required) For details see Pipe Accessories Submittal
 Low Ambient Kit for details see Low Ambient Kit Submittal
 Snow/Hail Guards Kit.....For details see Snow/Hail Guards kit submittal
 Base Pan Heater Kit For details see Base Pan Heater Kit Submittal

Specifications		System	Module 1	Module 2
Unit Type		PURY-P288YSLMU-A(-BS)	PURY-P144YLMU-A(-BS)	PURY-P144YLMU-A(-BS)
Nominal Cooling Capacity (460V)	Btu/h	288,000	144,000	144,000
Nominal Heating Capacity (460V)	Btu/h	323,000	160,000	160,000
Operating Temperature Range *1	Cooling (Indoor)*1	Refer to Module Data	23 ~ 126 °F(-5 ~ 52 °C) DB	23 ~ 126 °F(-5 ~ 52 °C) DB
	Heating (Indoor)		-4 ~ +60° F (-20 ~ +15.5° C) WB	-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 (1650 x 1750 x 740)	64-31/32 x 68-29/32 x 29-5/32 (1650 x 1750 x 740)
Net Weight	Lbs. (kg)	1460 (662)	730 (331)	730 (331)
External Finish		Refer to Module Data	Pre-coated galvanized steel sheet (+powder coating for -BS type)	
Electrical Power Requirements	Voltage, Phase, Hertz	Refer to Module Data**	460V, 3-phase, 60Hz	
Minimum Circuit Ampacity (MCA)**	A	Refer to Module Data**	24	24
Maximum Overcurrent Protection (MOP)**	A	Refer to Module Data**	35	35
<i>Piping Diameter (Braze)</i>				
From Twinning Kit to First Joint or Header (In. / mm)	Liquid (High Pressure)	1-1/8 / 28.58	Refer to System Data	Refer to System Data
	Gas (Low Pressure)	1-3/8 / 34.9	Refer to System Data	Refer to System Data
From Modules to Twinning Kit (In. / mm)	Liquid (High Pressure)	Refer to Module Data	7/8 / 22.20	7/8 / 22.20
	Gas (Low Pressure)	Refer to Module Data	1-1/8 / 28.6	1-1/8 / 28.6
Max. Total Refrigerant Line Length	Ft.	2,460	Refer to System Data	Refer to System Data
Max. Refrigerant Line Length (Bet.ODU & IDU)	Ft.	541		
Max. Control Wiring Length	Ft.	1,640		
Indoor Unit	Total Capacity	50~150	Refer to System Data	Refer to System Data
	Model / Quantity	P6~P96 / 2~50	Refer to System Data	Refer to System Data
Sound Pressure Level	dB(A)	64	Refer to System Data	Refer to System Data
<i>Fan</i>				
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		Selectable; 0, 0.12 or 0.24"WG; factory set to 0"W.G.	
Compressor Operating Range		7% - 100%	Refer to System Data	Refer to System Data
Compressor Type x Quantity		Refer to Module Data	Inverter scroll hermetic compressor x 1	Inverter scroll hermetic compressor x 1
Refrigerant		Refer to Module Data	R410A x 23 lbs. + 2 oz. (10.5 kg)	R410A x 23 lbs. + 2 oz. (10.5 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-heat protection, Over-current protection	Over-heat protection, Over-current protection
AHRI Ratings (Ducted/Non-Ducted)	EER	11.3 / 12.2	Refer to System Data	
	IEER	18.5 / 21.9	Refer to System Data	
	COP	3.28 / 3.38	Refer to System Data	
	SCHE	21.7 / 24.5	Refer to System Data	

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.
 ** Each individual module requires a separate electrical connection. Reference electrical data for each individual module.

Model: PURY-P288YSLMU-A (-BS)- DIMENSIONS



Front view

Unit model	P240	P264	P288
Component unit model	P120	P144	P144
High pressure c	ø19.05(3/4)	ø22.2(7/8)	ø22.2(7/8)
Low pressure d	- (Note 5)	ø28.58(1-1/8)	- (Note 5)
Unit model	P312	P336	P336
Component unit model	P168	P168	P168
High pressure c	ø22.2(7/8)	ø22.2(7/8)	ø22.2(7/8)
Low pressure d	- (Note 5)	ø28.58(1-1/8)	- (Note 5)

Unit: mm (in.)

Twining pipe connection size	ø34.93(1-3/8)	ø41.28(1-5/8)
Outdoor unit 1	PURY-P240YSLMU-A(-BS) PURY-P264YSLMU-A(-BS) PURY-P288YSLMU-A(-BS) PURY-P312YSLMU-A(-BS) PURY-P336YSLMU-A(-BS) PURY-P144YSLMU-A(-BS) PURY-P168YSLMU-A(-BS) PURY-P188YSLMU-A(-BS)	PURY-P240YSLMU-A(-BS) PURY-P264YSLMU-A(-BS) PURY-P288YSLMU-A(-BS) PURY-P312YSLMU-A(-BS) PURY-P336YSLMU-A(-BS) PURY-P144YSLMU-A(-BS) PURY-P168YSLMU-A(-BS) PURY-P188YSLMU-A(-BS)
Outdoor Twining Kit (optional parts)	CMV-ER2002BK	CMV-ER2002BK
BC controller-Twining pipe	ø28.58(1-1/8)	ø28.58(1-1/8)
High pressure a		
Low pressure b		

1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twining 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 Twining pipe installation.
3. The pipe section before the Twining 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 Twining pipe).
4. Only use the Twining pipe by Mitsubishi (optional parts).
5. Connect the outdoor unit 1 with the Twining pipe (Low pressure) (section "d" in the figure).

Model: PURY-P144YLMU-A (-BS)- DIMENSIONS

Unit: mm (in.)

- <Accessories>
- Connecting pipe
- <Low pressure>
- Elbow (Dø28.58(1-1/8)×ODø28.58(1-1/8)) ... P120.P144.P168 1pc.
- <High pressure>
- Pipe (Dø25.4(1)×IDø19.05(3/4)) ... P120 1pc.
- Pipe (Dø25.4(1)×ODø19.05(3/4)) ... P120 1pc.
- Pipe (Dø25.4(1)×IDø22.2(7/8)) ... P144.P168 1pc.
- Pipe (Dø25.4(1)×ODø22.2(7/8)) ... P144.P168 1pc.

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

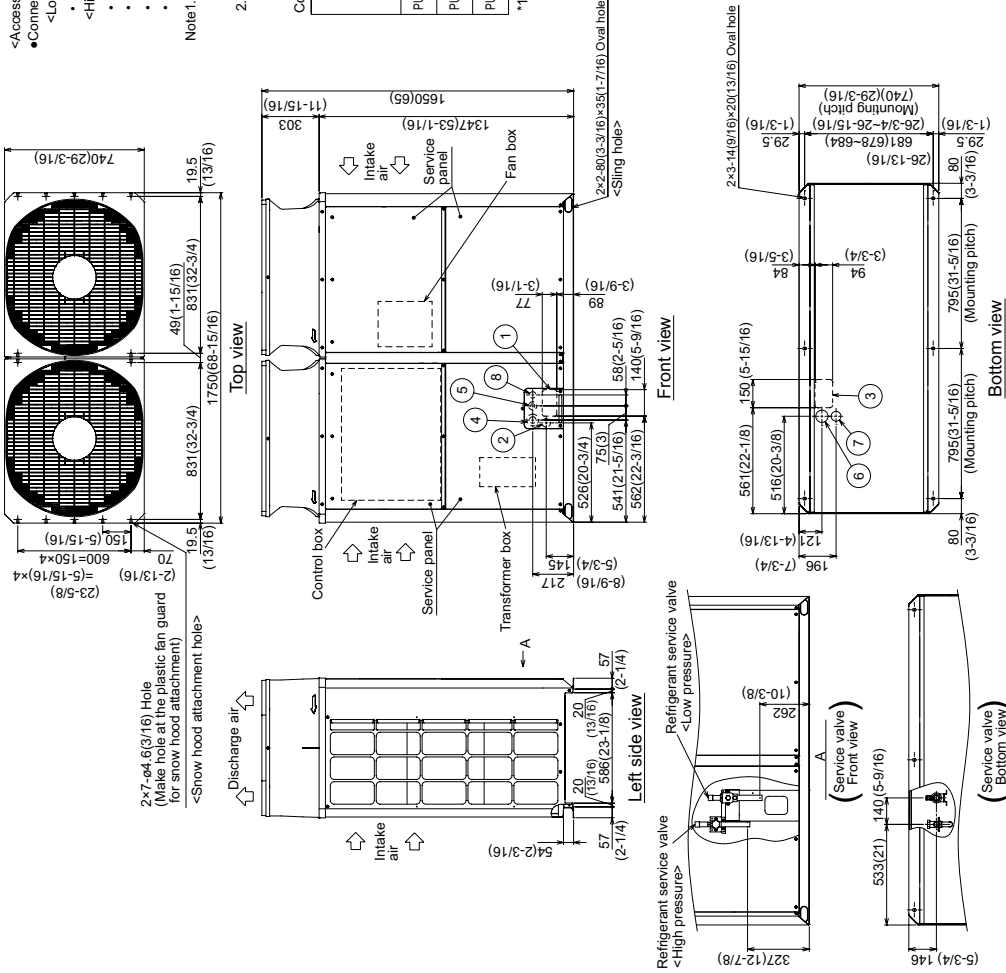
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248 F).

Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PURY-P120YLMU	ø19.05 Brazed (3/4) *1	ø28.58 Brazed (1-1/8) *1	ø25.4 (1)	ø28.58 (1-1/8)
PURY-P144YLMU	ø22.2 Brazed (7/8) *1	ø28.58 Brazed (1-1/8) *1	ø25.4 (1)	ø28.58 (1-1/8)
PURY-P168YLMU	ø22.2 Brazed (7/8) *1	ø28.58 Brazed (1-1/8) *1	ø25.4 (1)	ø28.58 (1-1/8)

*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

NO.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole (5-9/16)(3-1/16)
②	For pipes (Uses when twinning kit (optional parts) is mounted.)	ø45 Knockout hole (1-13/16)
③	Bottom through hole	150 x 94 Knockout hole (5-15/16)(3-3/4)
④	Front through hole	ø62.7 or ø34.5 Knockout hole (2-1/2)(1-3/8)
⑤	Front through hole	ø43.7 or ø22.2 Knockout hole (1-3/4)(7/8)
⑥	Bottom through hole	ø65 Knockout hole (2-9/16)
⑦	Bottom through hole	ø52 Knockout hole (2-1/16)
⑧	For transmission cables	ø34 Knockout hole (1-3/8)



Model: PURY-P144YLMU-A (-BS)- DIMENSIONS

Unit: mm (in.)

- <Accessories>
- Connecting pipe
- <Low pressure>
- Elbow (Dø28.58(1-1/8)×ODø28.58(1-1/8)) ... P120.P144.P168 1pc.
- <High pressure>
- Pipe (Dø25.4(1)×IDø19.05(3/4)) ... P120 1pc.
- Pipe (Dø25.4(1)×ODø19.05(3/4)) ... P120 1pc.
- Pipe (Dø25.4(1)×IDø22.2(7/8)) ... P144.P168 1pc.
- Pipe (Dø25.4(1)×ODø22.2(7/8)) ... P144.P168 1pc.

Note 1. Please refer to the next page for information regarding necessary spacing around the unit and foundation work.

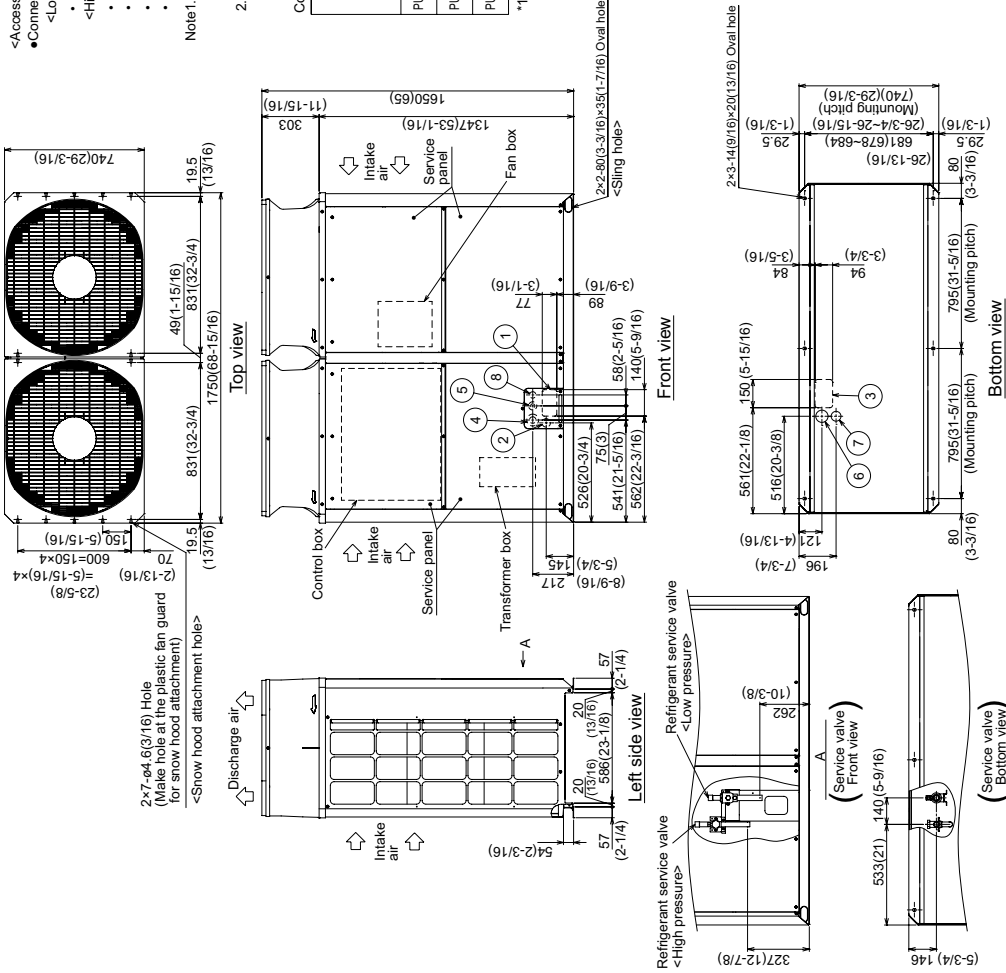
2. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248 F).

Connecting pipe specifications

Model	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PURY-P120YLMU	ø19.05 Brazed (3/4) *1	ø28.58 Brazed (1-1/8) *1	ø25.4 (1)	ø28.58 (1-1/8)
PURY-P144YLMU	ø22.2 Brazed (7/8) *1	ø28.58 Brazed (1-1/8) *1	ø25.4 (1)	ø28.58 (1-1/8)
PURY-P168YLMU	ø22.2 Brazed (7/8) *1	ø28.58 Brazed (1-1/8) *1	ø25.4 (1)	ø28.58 (1-1/8)

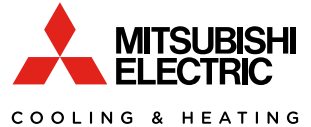
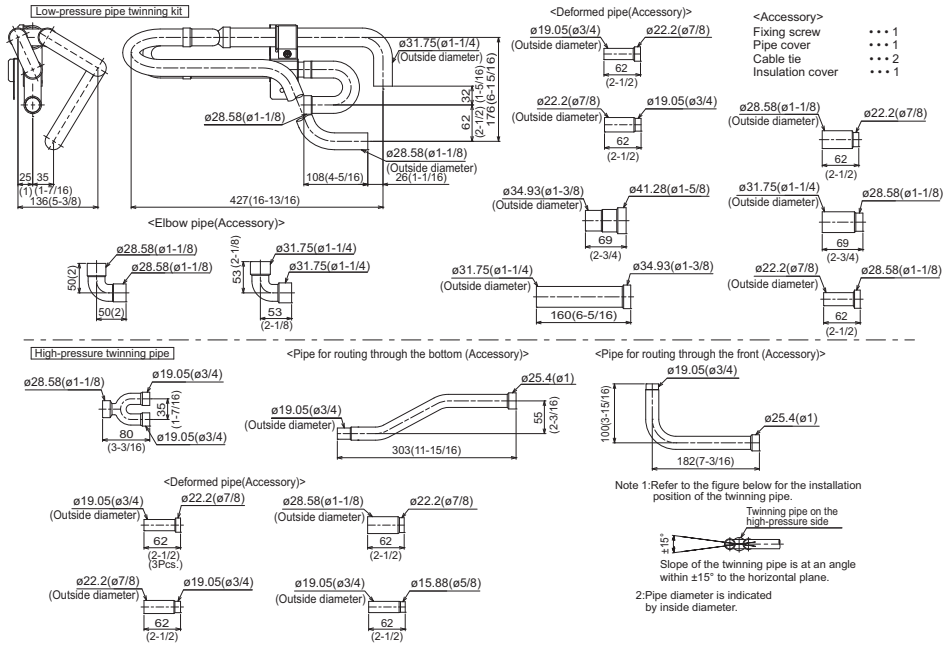
*1 Use the included connecting pipe and connect to the refrigerant service valve piping.

NO.	Usage	Specifications
①	Front through hole	140 x 77 Knockout hole (5-9/16)(3-1/16)
②	For pipes (Uses when twinning kit (optional parts) is mounted.)	ø45 Knockout hole (1-13/16)
③	Bottom through hole	150 x 94 Knockout hole (5-15/16)(3-3/4)
④	Front through hole	ø62.7 or ø34.5 Knockout hole (2-1/2)(1-3/8)
⑤	Front through hole	ø43.7 or ø22.2 Knockout hole (1-3/4)(7/8)
⑥	Bottom through hole	ø65 Knockout hole (2-9/16)
⑦	Bottom through hole	ø52 Knockout hole (2-1/16)
⑧	For transmission cables	ø34 Knockout hole (1-3/8)



Twinning Kit: CMY-ER200CBK- DIMENSIONS

Unit: mm (in.)



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FORM# PURY-P288YSLMU-A (-BS) -20160224

Specifications are subject to change without notice.

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