MITSUBISHI ELECTRIC
Heating and Cooling

Submittal Data: PURY-P216ZSKMU-B (-BS)

CITY MULTI

Job Name:	Location:
Schedule Reference:	Submitted By:
Submitted To:	Reference: ☐ Approval: ☐ Construction: ☐
Engineer:	Date: / Application:

  ☐ Standard Model ☐ Seacoast (-BS) Model

• Snow/Wind Guards - (See separate submittal)

Specifications:

Indoor Model				Non-Ducted	Ducted
Power source				3-phase 3-wire 575V ±10% 60 Hz	
Cooling capacity		*1	BTU/h	216,000	
(Nominal)			kW	63.3	
	Power input		kW	17.74	
(575)	Current input		A	19.7	
(Rated)			BTU/h	206,000	
			kW	60.4	
	Power input		kW	19.99	19.56
(575)	Current input		A	22.3	21.8
Temp. range	Indoor		W.B.	59 ~ 75°F (15 ~ 24°C)	
of cooling	Outdoor		D.B.	23 ~ 115°F (-5 ~ 46°C)	
Heating capacity		*2	BTU/h	243,000	
(Nominal)			kW	71.2	
	Power input		kW	20.61	
(575)	Current input		A	22.9	
(Rated)			BTU/h	232,000	
			kW	68.0	
	Power input		kW	19.55	18.72
(575)	Current input		A	21.8	20.8
Temp. range	Indoor		D.B.	59 ~ 81°F (15 ~ 27°C)	
of heating	Outdoor		W.B.	- 4 ~ 60°F (-20 ~ 15.5°C)	
Indoor unit	Total capacity			50 ~ 150% of outdoor unit capacity	
connectable	Model / Quantity			P04 ~ P96 / 2 ~ 50	
Sound power level	(measured in anechoic room)		dB <A>	85.5	
Refrigerant	High pressure		in. (mm)	1-1/8 (28.58) Brazed	
piping diameter	Low pressure		in. (mm)	1-1/8 (28.58) Brazed	
AHRI Ratings	EER			10.10/10.10	
(Ducted / Non-Ducted)	IEER			17.80/15.70	
	COP @ 47F - COP @ 17F			3.38/3.32 - 2.06/2.18	
	SCHE			27.90/23.50	

Set Model

Model				**PURY-P96KMU-B (-BS)**	**PURY-P120ZKMU-B (-BS)**
Minimum Circuit Ampacity			A	15	21
Maximum Overcurrent Protection			A	25	30
Fan	Type x Quantity			Propeller fan x1	Propeller fan x2
	Airflow rate		cfm	6,550	11,300
			m^3/min	185	320
			L/s	3,080	5,330
	Control, Driving mechanism			Inverter-control , Brushless DC motor	Inverter-control , Brushless DC motor
	Motor output		kW	0.92	0.92+0.92
	*3 External static press.			0 in.WG (0 Pa)	0 in.WG (0 Pa)
Compressor	Type x Quantity			Inverter scroll hermetic compressor x1	Inverter scroll hermetic compressor x1
	Starting method			Inverter	Inverter
	Motor output		kW	6.6	8.2
	Case heater		kW	0.035	0.045
	Lubricant			MEL32	MEL32
External finish				Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>	Pre-coated galvanized steel sheet (+powder coating for -BS type) <MUNSELL 5Y 8/1 or similar>
External dimension H x W x D			in. (mm)	65 x 48-1/16 x 29-3/16 (1650 x 1,220 x 740)	65 x 68-15/16 x 29-3/16 (1650 x 1,750 x 740)
Protection	High Pressure protection			High pressure senor, High pressure switch at 4.15 MPa (601 psi)	High pressure senor, High pressure switch at 4.15 MPa (601 psi)
devices	Inverter circuit (COMP./FAN)			Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor			-	-
	Fan Motor			-	-
Refrigerant	Type x original charge			R410A x 22 lbs + 12 oz (10.3kg)	R410A x 26 lbs + 1 oz (11.8 kg)
	Control			Indoor LEV and BC Controller	Indoor LEV and BC Controller
Net weight			lbs (kg)	567 (257)	770 (349)
Heat Exchanger				Salt-resistant cross fin & copper tube	Salt-resistant cross fin & copper tube
HIC circuit (HIC: Heat Inter-Changer)				-	-
Pipe between	High pressure		in. (mm)	3/4 (19.05) Brazed	3/4 (19.05) Brazed
unit and distributor	Low pressure		in. (mm)	7/8 (22.2) Brazed	
Defrosting method				Auto-defrost mode (Reversed refrigerant cycle)	Auto-defrost mode (Reversed refrigerant cycle)
Optional parts				Outdoor Twinning kit: CMY-R100XLCBK 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-JA2, CMB-P1016NU-KA2 Sub BC controller: CMB-P104,108NU-KB2	
Compressor Operating Range				34.1% to 100%	28.4 to 100%

Notes:

1.Nominal Cooling conditions (Test conditions are based on AHRI 1230) Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)
2.Nominal Heating conditions (Test conditions are based on AHRI 1230) Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)
3.External static pressure option is available (0.12 in.WG, 0.24 in.WG, 30 Pa, 60 Pa).
4.All electrical work shall comply with National (CEC) and local codes and regulations.
5.Mitsubishi Electric Sales Canada Inc. (MESCA) supports the use of only MESCA supplied and approved components and accessories for proper functioning of the unit(s).
6.Mitsubishi Electric Sales Canada Inc. (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.
7.Should any person change this document in any manner whatsoever without MESCA's written permission, the document shall be of no force and effect and any change shall be deemed to be a representation and warranty made by that person and not MESCA. That person, and not MESCA, shall assume full responsibility for the consequences of such changes. MESCA assumes no responsibility for any consequences in such cases.

Outdoor Unit Outline and Dimensions:

Note 1.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).

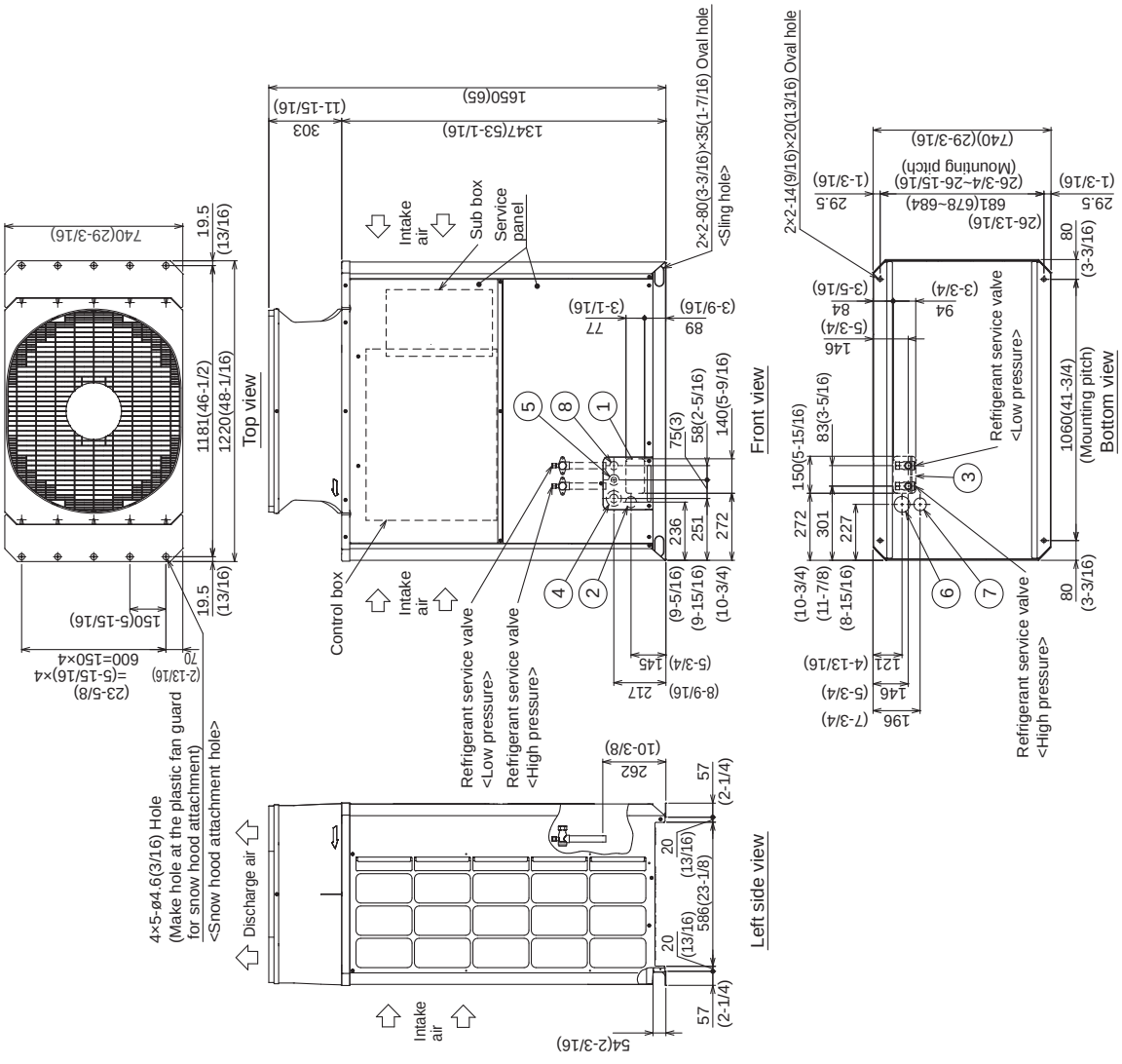
Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PURY-P96ZKMU	ø19.05 Brazed (3/4) *1	ø22.2 Brazed (7/8) *1	ø25.4 (1)	ø25.4 (1)

*1 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.

NO.	Usage		Specifications
①	For pipes	Front through hole	140 × 77 Knockout hole (5-9/16) (3-1/16)
②		Front through hole (Uses when twinning kit (optional parts) is mounted.)	ø45 Knockout hole (1-13/16)
③		Bottom through hole	150 × 94 Knockout hole (5-15/16) (3-3/4)
④	For wires	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	Front through hole	ø34 Knockout hole (1-3/8)

Unit: mm (in.)



Outdoor Unit Outline and Dimensions:

Note 1.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	Diameter	
	Refrigerant pipe	Service valve
	High pressure / Low pressure	High pressure / Low pressure
PURY-P120ZKMU	ø19.05 Brazed (3/4) *2 / ø28.58 Brazed (1-1/8) *1	ø25.4 (1) / ø28.58 (1-1/8)
PURY-P144ZKMU	ø22.2 Brazed (7/8) *2 / ø28.58 Brazed (1-1/8) *1	ø25.4 (1) / ø28.58 (1-1/8)

*1 Expand the on-site piping and connect to the refrigerant service valve piping.
*2 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.

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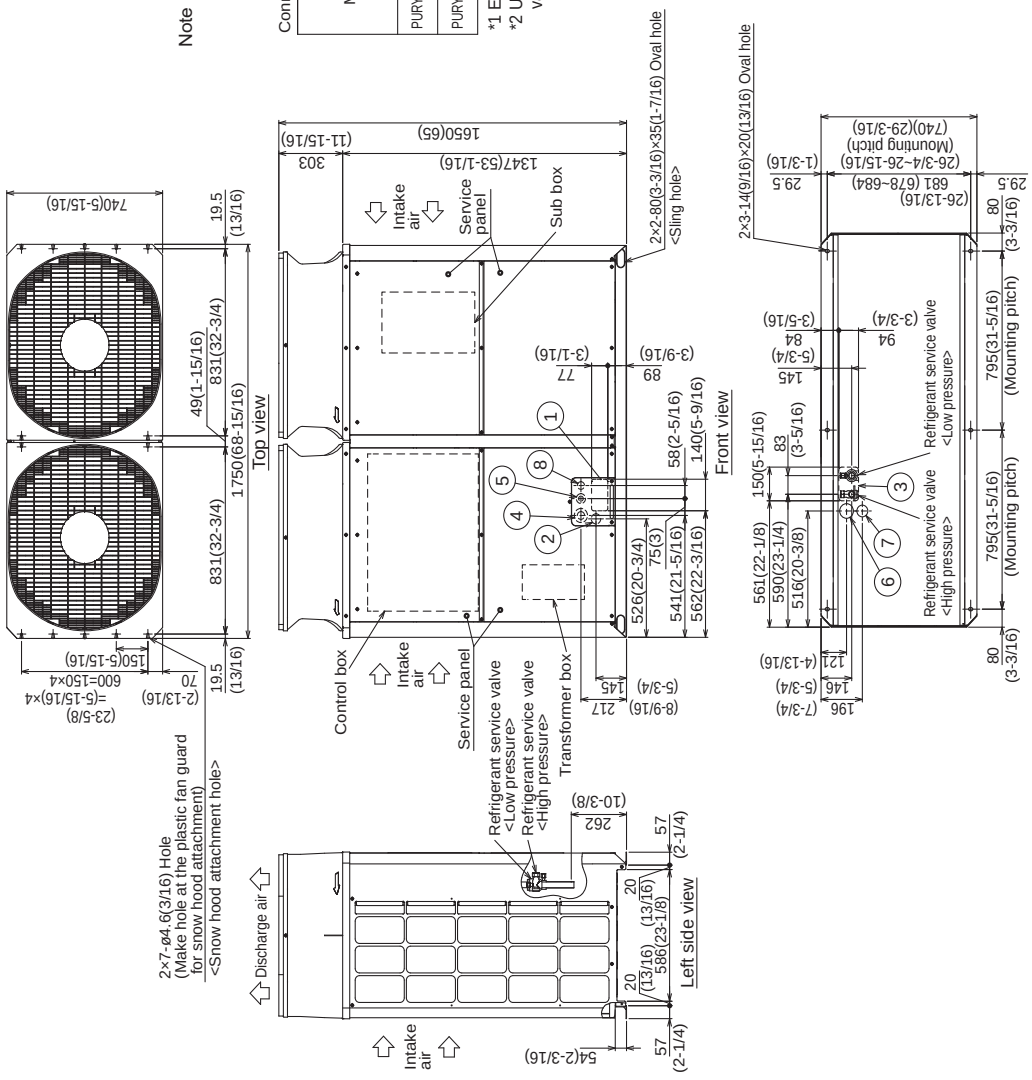
Unit: mm (in.)



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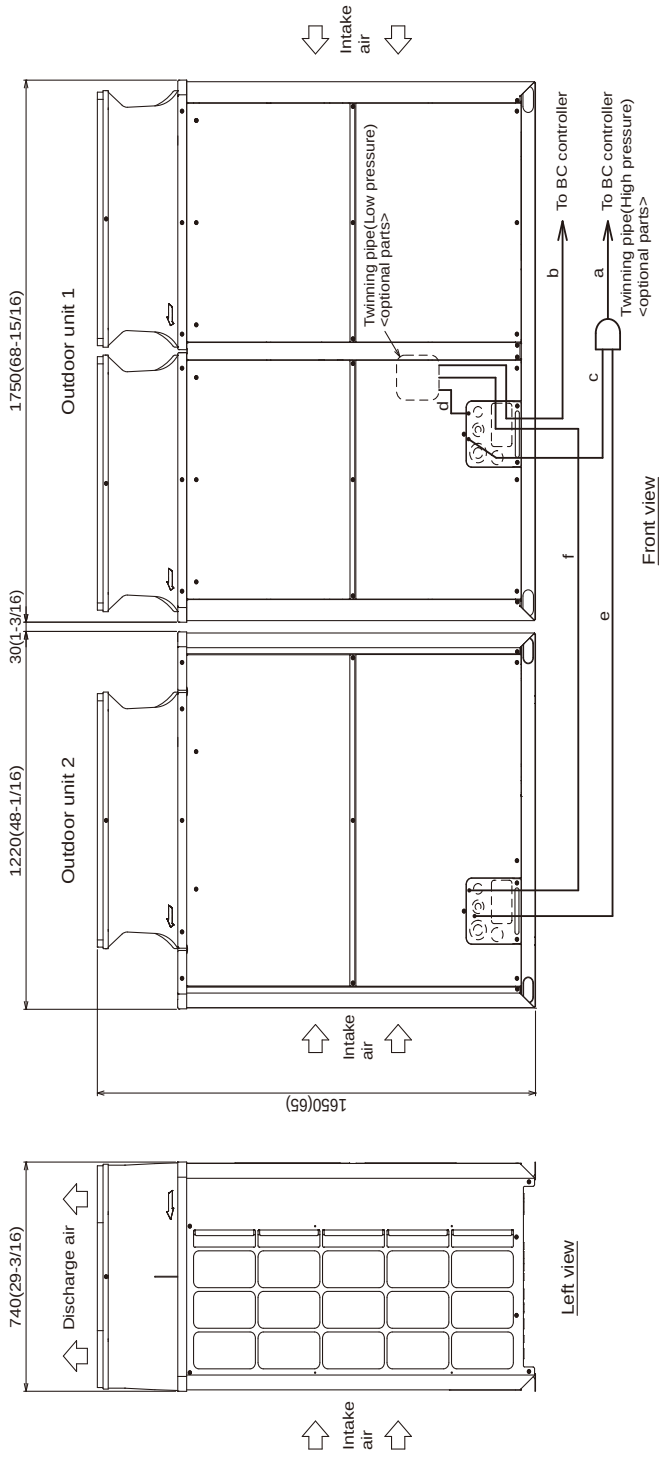

Unit: mm (in.)

Twinning pipe connection size

Package unit name		PURY-P216ZSKMU-B(-BS)		
Component unit name	Outdoor unit 1	PURY-P120ZKMU-B(-BS)		
	Outdoor unit 2	PURY-P96ZKMU-B(-BS)		
Outdoor Twinning Kit(optional parts)		CMY-R100XLCBK		
BC controller–Twinning pipe	High pressure	a	ø28.58(1-1/8)	
	Low pressure	b	ø28.58(1-1/8)	

		Unit model	P216		
		Component unit model	P120	P96	
Twinning Kit –Outdoor unit	High pressure	c	ø19.05(3/4)	e	ø19.05(3/4)
	Low pressure	d	–(Note 5)	f	ø22.2(7/8)

Note 1. Connect the pipes as shown in the figure above. Refer to the table above for the pipe size.
2. Twinning pipes must be installed horizontally using a level vessel.
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).