

Submittal Data: PQRYP312ZSLMU-B

Job Name:		Location:	
Purchaser:		Submitted By:	
Submitted To:		Engineer:	
Date:		Application:	

☐ Reference
 ☐ Approval
 ☐ Construction



*Reference image

GENERAL FEATURES:

- Simultaneous heating and cooling operation
- Double heat recovery operation within refrigerant loop and water loop
- Water flow rate control via DC 0-10V from control board

Outdoor Model	PQRYP312ZSLMU-B	
Power Source	3-phase 3-wire 575 V ±10% 60 Hz	
Cooling		
Cooling Capacity (Nominal)	312,000	
Cooling Capacity (Nominal)	91.4	
Power Input (Nominal)	23.41	kW
Current Input (Nominal)	26.1	A
Cooling Capacity (Rated)	298000	BTU/h
Cooling Capacity (Rated)	87.3	kW
Power Input (Rated) Non-Ducted/ Ducted	22.45/24.98	kW
Current Input (Rated) Non-Ducted/ Ducted	25.0/27.8	A
Guaranteed Operating Range (Indoor)	59.0°F~75.0°F W.B. (15.0°C~24.0°C)	
Guaranteed Operating Range (Outdoor)	50~113°F (10~45°C)	
Heating		
Heating Capacity (Nominal)	350000	BTU/h
Heating Capacity (Nominal)	102.6	kW
Power Input (Nominal)	19.11	kW
Current Input (Nominal)	21.3	A
Heating Capacity (Rated)	334000	BTU/h
Heating Capacity (Rated)	97.9	kW
Power Input (Rated) Non-Ducted/ Ducted	17.09/17.12	kW
Current Input (Rated) Non-Ducted/ Ducted	19.0/19.0	A
Operating Range (Indoor)	59.0°F~81.0°F D.B. (15.0°C~27.0°C)	
Operating Range (Outdoor)	50~113°F (10~45°C)	
Refrigerant Piping		
High Pressure Diameter	1-1/8 (28.58) Brazed	
Low Pressure Diameter	1-3/8 (34.93) Brazed	
Indoor Unit Connectable		
Total Capacity	50~150% of heat source unit capacity	
Model / Maximum Quantity	P04~P96/50 (Connectable branch pipe number is max. 48.)	
Sound Power level (in anechoic room)	72.5	dB <A>

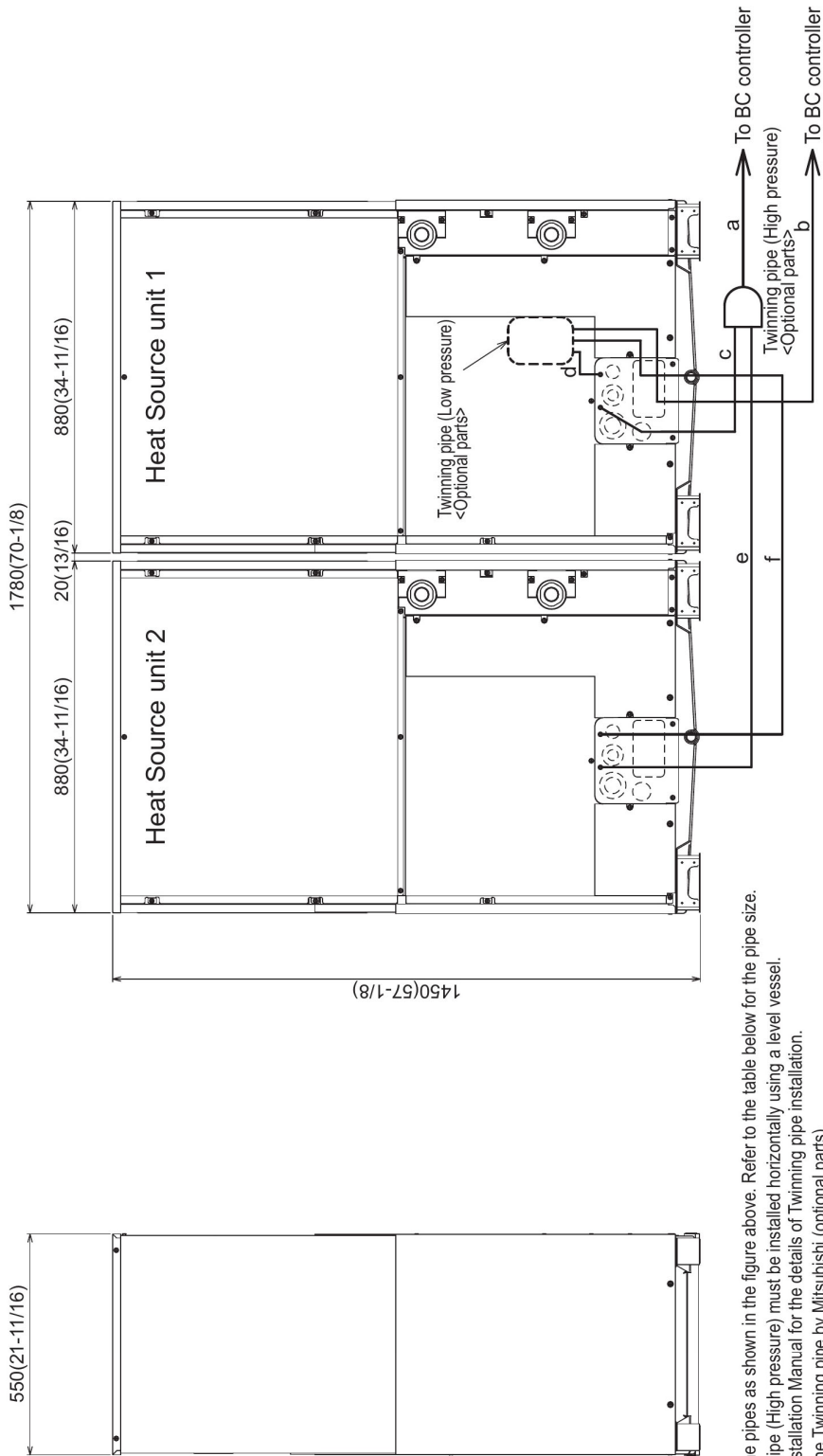
Outdoor Model	PQRYP168ZLMU-B	PQRYP144ZLMU-B	
Electrical			
Minimum Circuit Ampacity (MCA)	21	15	A
Maximum Overcurrent Protection (MOP)	35	25	A
Circulating Water			
Circulating water flowrate	31.7 + 31.7 (120 + 120)		G/min (L/min)
Circulating water Pressure drop	6.38 (44)	6.38 (44)	psi (kPa)
Circulating water flowrate operating range	19.8 + 19.8 ~ 50.9 + 50.9 (4.5 + 4.5 ~ 11.6 + 11.6)		G/min (m3/h)
Refrigerant Piping between unit and distributor			
High Pressure Diameter	7/8 (22.2) Brazed	7/8 (22.2) Brazed	in. (mm)
Low Pressure Diameter	-	1-1/8 (28.58) Brazed	in. (mm)
Compressor			
Type × Quantity	Inverter scroll hermetic × 1	Inverter scroll hermetic × 1	
Motor Output	11	9.5	kW
Starting Method	Inverter	Inverter	
Case Heater	0.045	0.045	kW
Lubricant	MEL32	MEL32	
Physical & Finish			
External finish	Galvanized steel sheets	Galvanized steel sheets	
External Dimensions (H × W × D)	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16	in.
External Dimensions (H × W × D)	1,450 x 880 x 550	1,450 x 880 x 550	mm
Net Weight	510 (231)	510 (231)	lb (kg)
Refrigerant			
Type × Original Charge	R410A x 13 lbs + 4 oz (6.0 kg) R410A x 13 lbs + 4 oz (6.0 kg)		

Notes:

- Nominal cooling conditions (Test conditions are based on AHRI 1230)
Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)
- Nominal heating conditions (Test conditions are based on AHRI 1230)
Indoor: 68°F D.B. (20°C D.B.), Inlet water temperature: 68°F (20°C)
- The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m).
Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)
- 23°F EWT (Entering water temperature) is possible via DipSwitch Setting. Antifreeze (glycol) must be added to the water loop to prevent freezing down to 5°F
- The ambient temperature of the Heat Source Unit is to be below 104°F D.B. (40°C D.B.)
- The ambient relative humidity of the Heat Source Unit is to be below 80%.
- The Heat Source Unit should not be installed at outdoor.
- Use a strainer (more than 50 meshes) at the water inlet piping of the unit.
- Provide interlocking for the unit operation and water circuit.
- Install the supplied insulation material to the unused drain-socket.
- When installing insulation material around both water and refrigerant piping, follow the installation manual.
- The water circuit must be a closed circuit (water is not exposed to the atmosphere).
- All electrical work shall comply with Nation (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.
- Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved accessories. Use of non-MESCA supported accessories will affect warranty coverage.

PQRY-P288, 312, 336ZSLMU-B

Unit: mm(in)



- Note 1. Connect the pipes as shown in the figure above. Refer to the table below for the pipe size.
2. Twinning pipe (High pressure) must be installed horizontally using a level vessel.
3. See the Installation Manual for the details of Twinning pipe installation.
4. Only use the Twinning pipe by Mitsubishi (optional parts).
5. Connect the heat source unit 1 with the Twinning pipe (Low pressure) (section "d" in the figure).

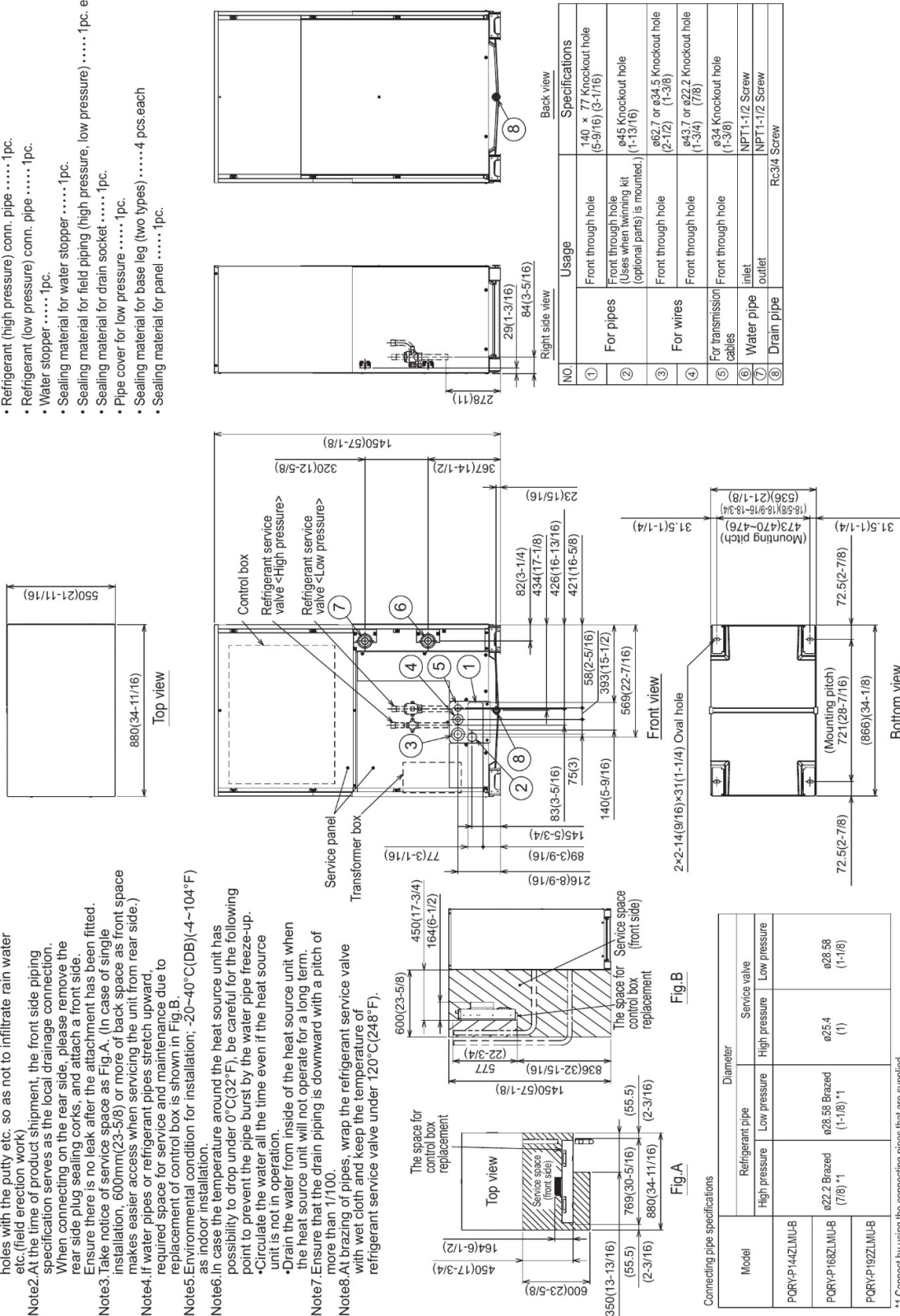
Twinning pipe connection size

Package unit name		PQRY-P288ZSLMU-B	PQRY-P312ZSLMU-B	PQRY-P336ZSLMU-B
Component unit name	Heat Source unit 1	PQRY-P144ZLMU-B	PQRY-P168ZLMU-B	PQRY-P182ZLMU-B
	Heat Source unit 2	PQRY-P144ZLMU-B	PQRY-P144ZLMU-B	PQRY-P168ZLMU-B
Twinning Kit (optional parts)		CMY-Q200CBK		
BC controller~Twinning pipe	High pressure	a	ø28.58(1-1/8)	ø41.28(1-5/8)
	Low pressure	b	ø34.93(1-3/8)	ø22.2(7/8)
Twinning pipe~Heat source unit 1	High pressure	c	ø22.2(7/8)	- (Note 5)
	Low pressure	d	- (Note 5)	ø22.2(7/8)
Twinning pipe~Heat source unit 2	High pressure	e	ø22.2(7/8)	ø28.58(1-1/8)
	Low pressure	f	ø28.58(1-1/8)	

PQRY-P144, 168, 192ZLMU-B

Unit: mm(in)

- Accessories (Packaged in the accessory kit) >
- Refrigerant (high pressure) conn. pipe 1pc.
- Refrigerant (low pressure) conn. pipe 1pc.
- Water stopper 1pc.
- Sealing material for water stopper 1pc.
- Sealing material for field piping (high pressure, low pressure) 1pc. each
- Sealing material for drain socket 1pc.
- Pipe cover for low pressure 1pc.
- Sealing material for base leg (two types) 4 pcs each
- Sealing material for panel 1pc.



1 Connect by using the connecting pipes that are supplied