

Submittal Data: PQR-Y-P192ZSLMU-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	PQRY-P192ZSLMU-B	
Power Source	3-phase 3-wire 575 V ±10% 60 Hz	
Cooling		
Cooling Capacity (Nominal)	192,000	
Cooling Capacity (Nominal)	56.3	
Power Input (Nominal)	11.3	kW
Current Input (Nominal)	12.6	A
Cooling Capacity (Rated)	184000	BTU/h
Cooling Capacity (Rated)	53.9	kW
Power Input (Rated) Non-Ducted/ Ducted	10.57/11.54	kW
Current Input (Rated) Non-Ducted/ Ducted	11.7/12.8	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)	215000	BTU/h
Heating Capacity (Nominal)	63	kW
Power Input (Nominal)	11.02	kW
Current Input (Nominal)	12.2	A
Heating Capacity (Rated)	204000	BTU/h
Heating Capacity (Rated)	59.8	kW
Power Input (Rated) Non-Ducted/ Ducted	9.53/8.82	kW
Current Input (Rated) Non-Ducted/ Ducted	10.6/9.8	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	7/8 (22.2) Brazed	
Low Pressure Diameter	1-1/8 (28.58) Brazed	
Indoor Unit Connectable		
Total Capacity	50~150% of heat source unit capacity	
Model / Maximum Quantity	P04~P96/48	
Sound Power level (in anechoic room)	68	dB <A>

Accessories	Model Numbers
Twinning Kit	CMY-Q100CBK2
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

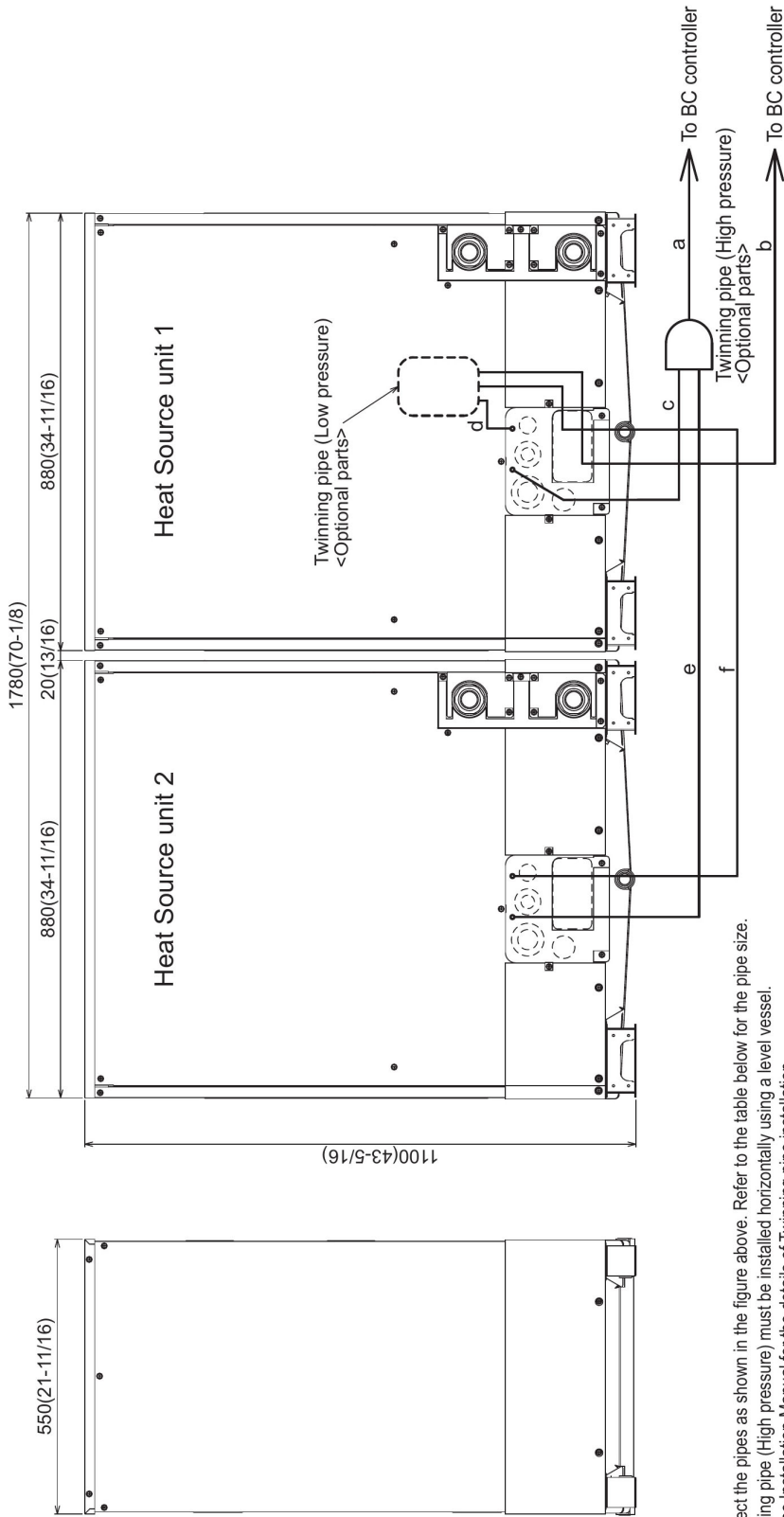
Outdoor Model	PQR-Y-P96ZLMU-B	PQR-Y-P96ZLMU-B	
Electrical			
Minimum Circuit Ampacity (MCA)	9	9	A
Maximum Overcurrent Protection (MOP)	15	15	A
Circulating Water			
Circulating water flowrate	25.4 + 25.4 (96 + 96)		G/min (L/min)
Circulating water Pressure drop	3.48 (24)	3.48 (24)	psi (kPa)
Circulating water flowrate/pressure operating range	13.2 + 13.2 ~ 31.7 + 31.7 (3.0 + 3.0 ~ 7.2 + 7.2)		G/min (m3/h)
Refrigerant Piping between unit and distributor			
High Pressure Diameter	3/4 (19.05) Braze	3/4 (19.05) Braze	in. (mm)
Low Pressure Diameter	-	7/8 (22.2) Braze	in. (mm)
Compressor			
Type × Quantity	Inverter scroll hermetic × 1	Inverter scroll hermetic × 1	
Motor Output	6	6	kW
Starting Method	Inverter	Inverter	
Case Heater	0.035	0.035	kW
Lubricant	MEL32	MEL32	
Physical & Finish			
External finish	Galvanized steel sheets	Galvanized steel sheets	
External Dimensions (H × W × D)	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16	in
External Dimensions (H × W × D)	1,100 x 880 x 550	1,100 x 880 x 550	mm
Net Weight	406 (184)	406 (184)	lb (kg)
Refrigerant			
Type × Original Charge	R410A x 11 lbs + 1 oz (5.0 kg)	R410A x 11 lbs + 1 oz (5.0 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

PQRYP144, 168, 192, 216, 240ZSLMU-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

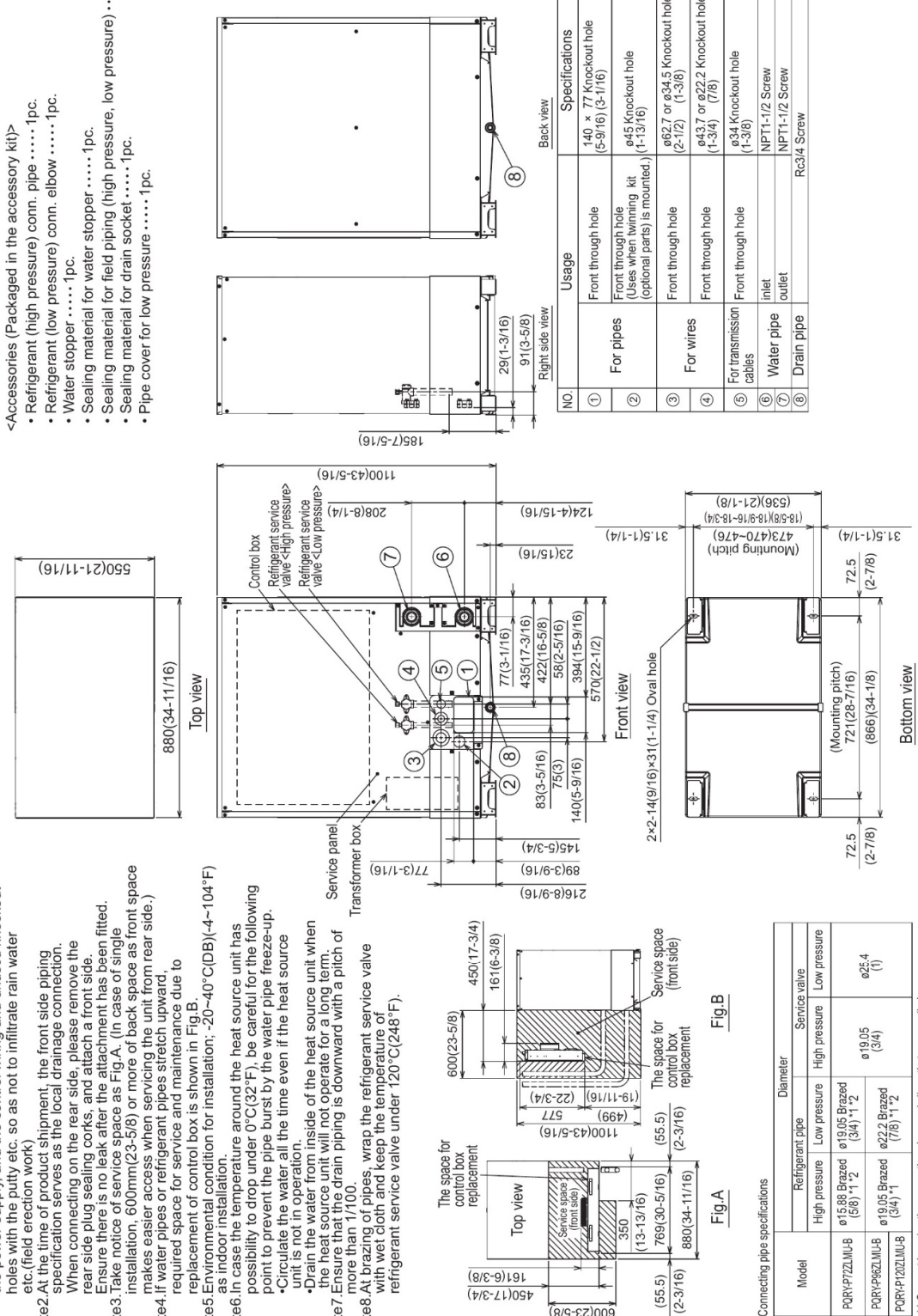
Package unit name	PQRYP144ZSLMU-B	PQRYP168ZSLMU-B	PQRYP192ZSLMU-B	PQRYP216ZSLMU-B	PQRYP240ZSLMU-B
Heat source unit 1	PQRYP72ZLMU-B	PQRYP66ZLMU-B	PQRYP66ZLMU-B	PQRYP66ZLMU-B	PQRYP66ZLMU-B
Heat source unit 2	PQRYP72ZLMU-B	PQRYP66ZLMU-B	PQRYP66ZLMU-B	PQRYP66ZLMU-B	PQRYP66ZLMU-B
Twinning Kit(optional parts)	QWY-Q100CBK2				
High pressure	ø22.2(7/8)				
Low pressure	ø22.2(7/8) *1				
BC controller-Twinning pipe	ø28.58(1-1/8)				
High pressure	ø15.88(5/8)				
Low pressure	ø19.05(3/4)				
Heat source unit 1	ø15.88(5/8)				
Low pressure	ø19.05(3/4)				
Heat source unit 2	ø15.88(5/8)				
Low pressure	ø19.05(3/4)				

*1. When the piping length is 65 m (213 ft) or longer, use the ø28.58(1-1/8) pipe for the part that exceeds 65 m (213 ft).

PQRY-P72, 96, 120ZLMU-B

Unit: mm(in)

- <Accessories (Packaged in the accessory kit)>
- Refrigerant (high pressure) conn. pipe 1pc.
 - Refrigerant (low pressure) conn. elbow 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.



Note1 Close a hole of the water piping, the refrigerant piping, the power supply, and the control wiring and unused knockout holes with the putty etc. so as not to infiltrate rain water etc. (field erection work)

Note2 At the time of product shipment, the front side piping specification serves as the local drainage connection. When connecting on the rear side, please remove the rear side plug sealing corks, and attach a front side. Ensure there is no leak after the attachment has been fitted.

Note3 Take notice of service space as Fig. A. (In case of single installation, 600mm(23-5/8) or more of back space as front space makes easier access when servicing the unit from rear side.)

Note4 If water pipes or refrigerant pipes stretch upward, required space for service and maintenance due to replacement of control box is shown in Fig. B.

Note5 Environmental condition for installation: -20~40°C(DB)(-4~104°F) as indoor installation.

Note6 In case the temperature around the heat source unit has possibility to drop under 0°C(32°F), be careful for the following point to prevent the pipe burst by the water pipe freeze-up.

- Circulate the water all the time even if the heat source unit is not in operation.
- Drain the water from inside of the heat source unit when the heat source unit will not operate for a long term.

Note7 Ensure that the drain piping is downward with a pitch of more than 1/100.

Note8 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).