

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

Accessories	Model Numbers
Twinning Kit	CMY-Q100CBK2
Joint	CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 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

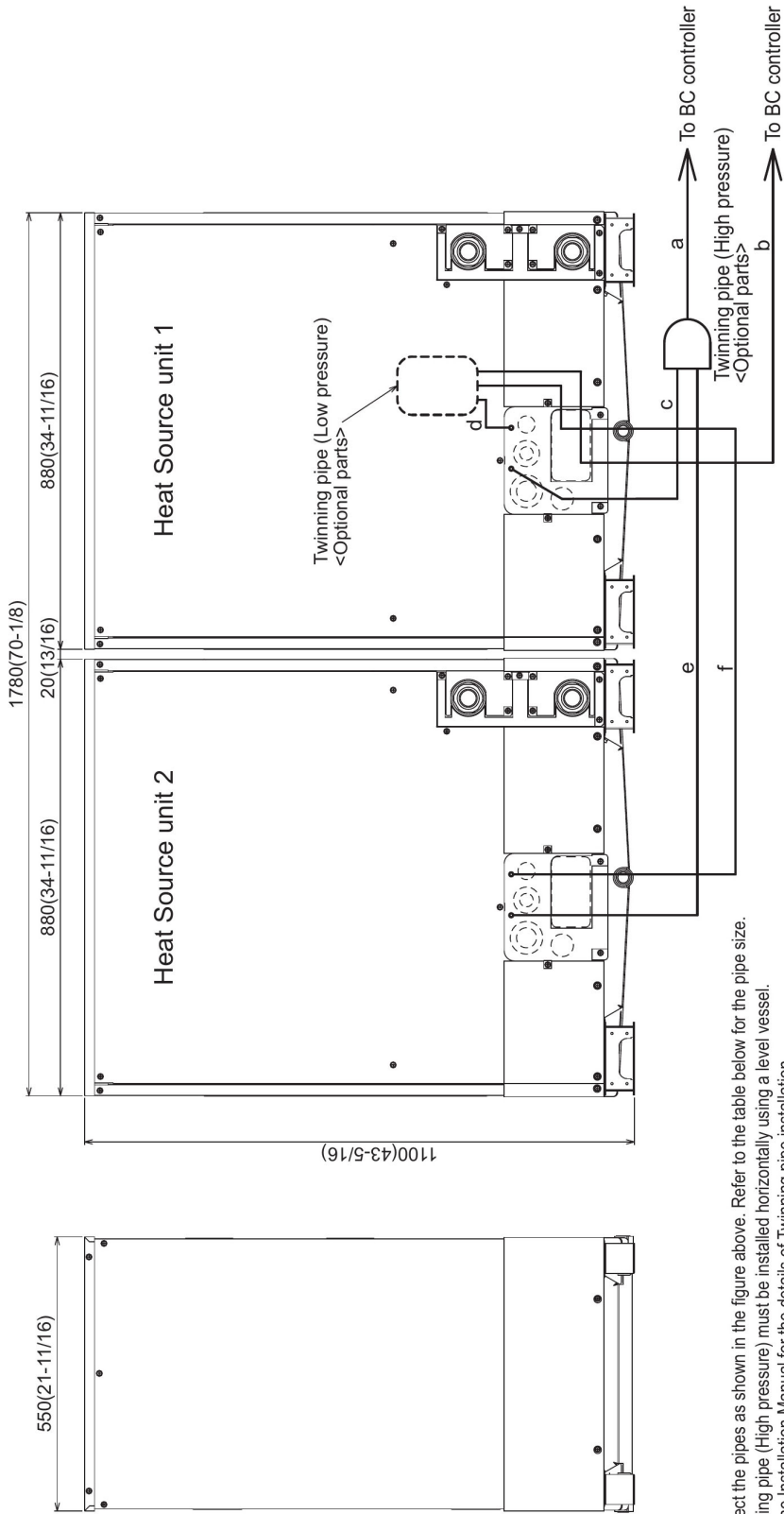
Outdoor Model		PQRY-P144ZSLMU-B	
Power Source		3-phase 3-wire 575 V ±10% 60 Hz	
Cooling			
Cooling Capacity (Nominal)		144,000	
Cooling Capacity (Nominal)		42.2	
Power Input (Nominal)		7.11	kW
Current Input (Nominal)		7.9	A
Cooling Capacity (Rated)		138000	BTU/h
Cooling Capacity (Rated)		40.4	kW
Power Input (Rated) Non-Ducted/ Ducted		6.96/8.17	kW
Current Input (Rated) Non-Ducted/ Ducted		7.7/9.1	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)		160000	BTU/h
Heating Capacity (Nominal)		46.9	kW
Power Input (Nominal)		7.45	kW
Current Input (Nominal)		8.3	A
Heating Capacity (Rated)		152000	BTU/h
Heating Capacity (Rated)		44.5	kW
Power Input (Rated) Non-Ducted/ Ducted		6.5/7.29	kW
Current Input (Rated) Non-Ducted/ Ducted		7.2/8.1	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~P96/36	
Sound Power level (in anechoic room)		63.5	dB <A>
Outdoor Model		PQRY-P72ZLMJ-B	PQRY-P72ZLMJ-B
Electrical			
Minimum Circuit Ampacity (MCA)		6	A
Maximum Overcurrent Protection (MOP)		15	A
Circulating Water			
Circulating water flowrate		25.4 + 25.4 (96 + 96)	G/min (L/min)
Circulating water Pressure drop		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		5/8 (15.88) Brazed	in. (mm)
Low Pressure Diameter		-	3/4 (19.05) Brazed
Compressor			
Type × Quantity		Inverter scroll hermetic × 1	Inverter scroll hermetic × 1
Motor Output		4.3	kW
Starting Method		Inverter	
Case Heater		0.035	kW
Lubricant		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	in
External Dimensions (H × W × D)		1,100 x 880 x 550	mm
Net Weight		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:

1. 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)
2. 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)
3. 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)
4. 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
5. The ambient temperature of the Heat Source Unit is to be below 104°F D.B. (40°C D.B.)
6. The ambient relative humidity of the Heat Source Unit is to be below 80%.
7. The Heat Source Unit should not be installed at outdoor.
8. Use a strainer (more than 50 meshes) at the water inlet piping of the unit.
9. Provide interlocking for the unit operation and water circuit.
10. Install the supplied insulation material to the unused drain-socket.
11. When installing insulation material around both water and refrigerant piping, follow the installation manual.
12. The water circuit must be a closed circuit (water is not exposed to the atmosphere).
13. All electrical work shall comply with Nation (CEC) and local codes and regulations
14. 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.
15. Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved accessories. Use of non-MESCA supported accessories will affect warranty coverage

PQRY-P144, 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	PQRY-P144ZSLMU-B	PQRY-P168ZSLMU-B	PQRY-P192ZSLMU-B	PQRY-P216ZSLMU-B	PQRY-P240ZSLMU-B
Heat source unit 1	PQRY-P72ZLMU-B	PQRY-P96ZLMU-B	PQRY-P120ZLMU-B	PQRY-P144ZLMU-B	PQRY-P168ZLMU-B
Heat source unit 2	PQRY-P72ZLMU-B	PQRY-P96ZLMU-B	PQRY-P120ZLMU-B	PQRY-P144ZLMU-B	PQRY-P168ZLMU-B
Twinning Kit(optional parts)	PQRY-P72ZLMU-B	PQRY-P96ZLMU-B	PQRY-P120ZLMU-B	PQRY-P144ZLMU-B	PQRY-P168ZLMU-B
High pressure	a	b	c	d	e
Low pressure	f	g	h	i	j
BC controller-Twinning pipe	ø22.2(7/8) *1				
High pressure	ø28.58(1-1/8)				
Low pressure	ø19.05(3/4)				
Heat source unit 1	- (Note 5)				
High pressure	ø15.88(5/8)				
Low pressure	ø19.05(3/4)				
Heat source unit 2	ø15.88(5/8)				
High pressure	ø19.05(3/4)				
Low pressure	ø22.2(7/8)				

*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)

