

Submittal Data: PQHY-P240ZSLMU-B

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

☐ Reference
 ☐ Approval
 ☐ Construction



*Reference image

GENERAL FEATURES:

- Heat pump operation
- System changeover mode available
- Water flow rate control via DC 0-10V from control board

Accessories	Model Numbers
Twinning Kit	CMY-Y100CBK3
Joint	CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2
Header	CMY-Y104, 108, 1010C-G

Outdoor Model	PQHY-P240ZSLMU-B	
Power Source	3-phase 3-wire 575 V ±10% 60 Hz	
Cooling		
Cooling Capacity (Nominal)	240000	BTU/h
Cooling Capacity (Nominal)	70.3	kW
Power Input (Nominal)	16.89	kW
Current Input (Nominal)	18.8	A
Cooling Capacity (Rated)	230000	BTU/h
Cooling Capacity (Rated)	67.4	kW
Power Input (Rated) Non-Ducted/ Ducted	15.73/16.79	kW
Current Input (Rated) Non-Ducted/ Ducted	17.5/18.7	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)	270000	BTU/h
Heating Capacity (Nominal)	79.1	kW
Power Input (Nominal)	14.58	kW
Current Input (Nominal)	16.2	A
Heating Capacity (Rated)	258000	BTU/h
Heating Capacity (Rated)	75.6	kW
Power Input (Rated) Non-Ducted/ Ducted	12.83/11.67	kW
Current Input (Rated) Non-Ducted/ Ducted	14.3/13.0	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		
Liquid Pipe Diameter	5/8 (15.88) Brazed	
Gas Pipe Diameter	1-1/8 (28.58) Brazed	
Indoor Unit Connectable		
Total Capacity	50~130% of heat source unit capacity	
Model / Maximum Quantity	P04~P96/50	
Sound Power level (in anechoic room)	74	dB <A>

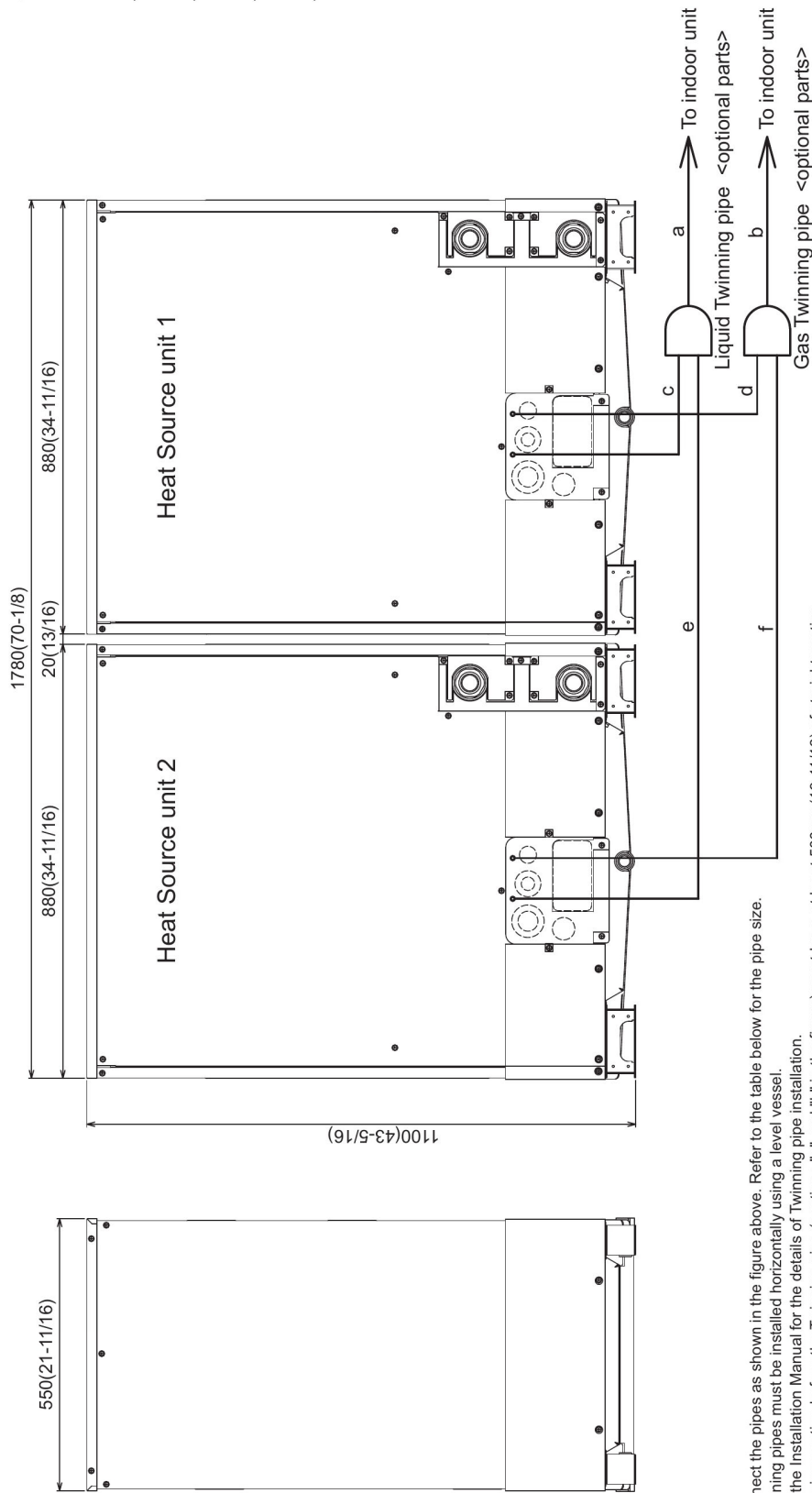
Outdoor Model	PQHY-P120ZLMU-B	PQHY-P120ZLMU-B	
Electrical			
Minimum Circuit Ampacity (MCA)	13	13	A
Maximum Overcurrent Protection (MOP)	20	20	A
Circulating Water			
Circulating water flowrate	25.4 + 25.4 (96 + 96)		G/min (L/min)
Circulating water Pressure drop	3.48 (24)	3.48 (24)	psi (kPa)
Circulating 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			
Liquid Pipe Diameter	1/2 (12.7) Brazed	1/2 (12.7) Brazed	in. (mm)
Gas Pipe Diameter	7/8 (22.2) Brazed	7/8 (22.2) Brazed	in. (mm)
Compressor			
Type × Quantity	Inverter scroll hermetic × 1	Inverter scroll hermetic × 1	
Motor Output	7.7	7.7	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	400 (181)	400 (181)	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.

PQHY-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 pipes must be installed horizontally using a level vessel.
3. See the Installation Manual for the details of Twinning pipe installation.
4. The pipe section before the Twinning pipe (sections "a" and "b" 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).
5. Only use the Twinning pipe by Mitsubishi (optional parts).

Twinning pipe connection size									
Package unit name		PQHY-P144ZSLMU-B		PQHY-P168ZSLMU-B		PQHY-P192ZSLMU-B		PQHY-P240ZSLMU-B	
Component unit name	Heat Source unit 1	PQHY-P72ZLMU-B	PQHY-P96ZLMU-B	PQHY-P96ZLMU-B	PQHY-P120ZLMU-B	PQHY-P120ZLMU-B			
	Heat Source unit 2	PQHY-P72ZLMU-B	PQHY-P96ZLMU-B	PQHY-P96ZLMU-B	PQHY-P120ZLMU-B	PQHY-P120ZLMU-B			
Twinning Kit(optional parts)		CMY-Y100CBK3							
Indoor unit-Twinning pipe	Liquid	a	ø12.7(1/2)		ø15.88(5/8)				
	Gas	b			ø28.58(1-1/8)				
Twinning pipe-Heat Source unit 1	Liquid	c	ø9.52(3/8)		ø12.7(1/2)				
	Gas	d	ø19.05(3/4)		ø22.2(7/8)				
Twinning pipe-Heat Source unit 2	Liquid	e	ø9.52(3/8)		ø12.7(1/2)				
	Gas	f	ø19.05(3/4)		ø22.2(7/8)				

PQHY-P72, 96, 120ZLMU-B

Unit: mm(in)

- <Accessories (Packaged in the accessory kit)>
- Refrigerant (Liquid) conn. pipe 1pc.
 - Refrigerant (Gas) conn. elbow 1pc.
 - Water stopper (Liquid, Gas) 1pc. each
 - Sealing material for water stopper (Liquid, Gas) 1pc. each
 - Sealing material for field piping (Liquid, Gas) 1pc. each
 - Sealing material for drain socket 1pc.
 - Pipe cover for gas 1pc.

