

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

Specifications:

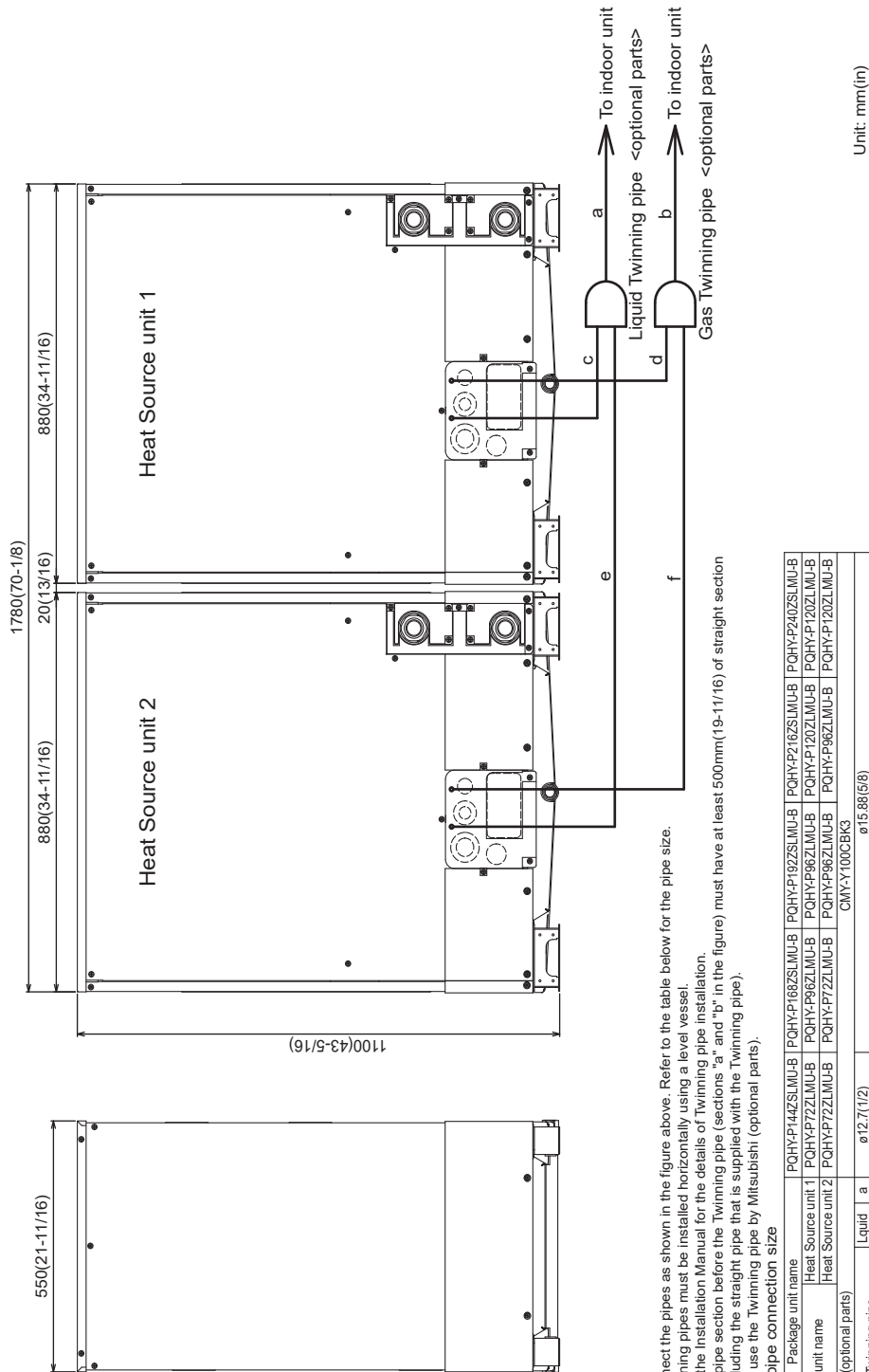
Indoor Model			Non-Ducted	Ducted
Power source			3-phase 3-wire 575V ±10% 60 Hz	
Cooling capacity			168,000	
(Nominal)	Power input	kW	49.2	
		A	9.33	
	(575) Current input	A	10.4	
		BTU/h	160,000	
	(Rated)	kW	46.9	
(575)	Power input	kW	8.87	
		A	9.8	
	Current input	A	9.66	
		BTU/h	10.7	
	(Rated)	kW	10.7	
Temp. range of cooling			59 ~ 75°F (15 ~ 24°C)	
Heating capacity (Nominal)			188,000	
(575)	Power input	kW	55.1	
		A	9.34	
	Current input	A	10.4	
		BTU/h	178,000	
	(Rated)	kW	52.2	
(575)	Power input	kW	8.05	
		A	8.9	
	Current input	A	8.04	
		BTU/h	8.9	
	(Rated)	kW	8.9	
Temp. range of heating			59 ~ 81°F (15 ~ 27°C)	
Indoor unit connectable			50 ~ 113°F (10 ~ 45°C)	
Sound power level (measured in anechoic room) *3			P04 ~ P96 / 1 ~ 42	
Refrigerant piping diameter			5/8 (15.88) Braze	
AHRI Ratings (Ducted / Non-Ducted)			1-1/8 (28.58) Braze	
EER			15.20 / 17.30	
IEER			21.50 / 23.70	
COP @ 68°F			5.61 / 6.02	

Set Model			PQHY-P96ZLMU-B		PQHY-P72ZLMU-B	
Minimum Circuit Ampacity		A	9		6	
Maximum Overcurrent Protection		A	15		15	
Circulating water	Water flow rate	G/h	1,522 + 1,522			
		G/min	25.4 + 25.4			
		m³/h	5.76 + 5.76			
		L/min	96 + 96			
		cfm	3.4 + 3.4			
	Pressure drop	psi	3.48		3.48	
		kPa	24		24	
	Operating volume range	G/h	793 + 793 ~ 1,902 + 1,902			
G/min		13.2 + 13.2 ~ 31.7 + 31.7				
m³/h		3.0 + 3.0 ~ 7.2 + 7.2				
Compressor	Type x Quantity		Inverter scroll hermetic compressor x1		Inverter scroll hermetic compressor x1	
	Starting method		Inverter		Inverter	
	Motor output	kW	6.0		4.3	
	Case heater	kW	0.035		0.035	
	Lubricant		MEL32		MEL32	
	External finish		Galvanized steel sheets		Galvanized steel sheets	
External dimension H x W x D		in. (mm)	43-5/16 x 34-11/16 x 21-11/16 (1,100 x 880 x 550)		43-5/16 x 34-11/16 x 21-11/16 (1,100 x 880 x 550)	
Protection devices	High Pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	
	Inverter circuit		Over-heat protection, Over-current protection		Over-heat protection, Over-current protection	
	Compressor		Over-heat protection		Over-heat protection	
Refrigerant	Type x original charge		R410A x 11 lbs + 1 oz (5.0 kg)		R410A x 11 lbs + 1 oz (5.0 kg)	
	Control		LEV and HIC circuit		LEV and HIC circuit	
Net weight		lbs (kg)	400 (181)		400 (181)	
Heat Exchanger	Water volume in plate	G	plate type		plate type	
		I	1.22		1.22	
		psi	4.6		4.6	
	Water pressure Max.	psi	290		290	
		Mpa	2.0		2.0	
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure	
Pipe between unit and distributor	Liquid pipe	in. (mm)	3/8 (9.52) Brazed		3/8 (9.52) Brazed	
	Gas pipe	in. (mm)	7/8 (22.2) Brazed		7/8 (22.2) Brazed	
Optional parts			Heat Source Twinning kit: CMY-Y100CBK3			
			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2			
			Header: CMY-Y104, 108, 1010C-G			
Compressor Operating Range			19.2% to 100%		23.8% to 100%	

Remarks	- The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.)	- Be sure to provide interlocking for the unit operation and water circuit.
	- The ambient relative humidity of the Heat Source Unit needs to be kept below 80%.	- Install the supplied insulation material to the unused drain-socket.
	- The Heat Source Unit should not be installed at outdoor.	- When installing insulation material around both water and refrigerant piping, follow the installation manual.
	- Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.	- The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

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.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.	

Condenser Unit Outline and Dimensions:



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).

Twining pipe connection size

Package unit name	PQHY-P14ZSLMU-B	PQHY-P168ZSLMU-B	PQHY-P192ZSLMU-B	PQHY-P216ZSLMU-B	PQHY-P240ZSLMU-B
Heat Source unit 1	PQHY-P72ZLMU-B	PQHY-P86ZLMU-B	PQHY-P96ZLMU-B	PQHY-P120ZLMU-B	PQHY-P120ZLMU-B
Heat Source unit 2	PQHY-P72ZLMU-B	PQHY-P72ZLMU-B	PQHY-P96ZLMU-B	PQHY-P96ZLMU-B	PQHY-P120ZLMU-B
Twining K(optional parts)	CMY-Y100CBK3				
Indoor unit- Twinning pipe	Liquid a	Gas b	ø15.88(5/8)		
	Liquid c	Gas d	ø28.58(1-1/8)		
Twinning pipe-Heat Source unit 1	Liquid e	Gas f	ø9.52(3/8)		
	Liquid e	Gas f	ø22.2(7/8)		
Twinning pipe-Heat Source unit 2	Liquid e	Gas f	ø9.52(3/8)		
	Liquid e	Gas f	ø22.2(7/8)		



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