

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

Specifications:													
Indoor Model			Non-Ducted			Ducted							
Power source			3-phase 3-wire 575V ±10% 60 Hz										
Cooling capacity (Nominal)		BTU/h		144,000									
		kW		42.2									
(575)		Power input		8.78									
		Current input		9.7									
(Rated)		BTU/h		138,000									
		kW		40.4									
(575)		Power input		9.44		10.12							
		Current input		10.5		11.2							
Temp. range of cooling		Indoor		W.B.		59 ~ 75°F		(15 ~ 24°C)					
		Inlet water		°F		50 ~ 113°F		(10 ~ 45°C)					
Heating capacity (Nominal)		BTU/h		160,000									
		kW		46.9									
(575)		Power input		8.11									
		Current input		9.0									
(Rated)		BTU/h		152,000									
		kW		44.5									
(575)		Power input		7.29		7.92							
		Current input		8.1		8.8							
Temp. range of heating		Indoor		D.B.		59 ~ 81°F		(15 ~ 27°C)					
		Inlet water		°F		50 ~ 113°F		(10 ~ 45°C)					
Indoor unit connectable		Total capacity		50~130% of heatsource unit capacity									
		Model / Quantity		P04 ~ P96 / 1 ~ 36									
Sound power level		(measured in anechoic room) ^{*3}		dB <A>		68.0							
Refrigerant		Liquid pipe		1/2 (12.7) Brazed									
piping diameter		Gas pipe		1-1/8 (28.58) Brazed									
Minimum Circuit Ampacity				A									
Maximum Overcurrent Protection				A									
Circulating water		Water flow rate		G/h		G/min		m³/h		L/min		cfm	
		Pressure drop		1,902		31.7		7.20		120		4.2	
				psi				6.38					
				kPa				44					
		Operating volume range		G/h		1,189 ~ 3,054							
				G/min		19.8 ~ 50.9							
		m³/h		4.5 ~ 11.6									
Compressor		Type x Quantity		Inverter scroll hermetic compressor x1									
		Starting method		Inverter									
		Motor output		kW									
		Case heater		kW									
		Lubricant		MEL32									
External finish			Galvanized steel sheets										
External dimension H x W x D		in. (mm)		57-1/8 x 34-11/16 x 21-11/16 (1,450 x 880 x 550)									
Protection devices		High Pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)									
		Inverter circuit		Over-heat protection, Over-current protection									
		Compressor		Over-heat protection									
Refrigerant		Type x original charge		R410A x 13 lbs + 4 oz (6.0 kg)									
		Control		LEV and HIC circuit									
Net weight		lbs (kg)		499 (226)									
Heat Exchanger		Water volume in plate		G		plate type							
						1.22							
		Water pressure Max.		l		4.6							
				psi		290							
				Mpa		2.0							
HIC circuit (HIC: Heat Inter-Changer)			Copper pipe, tube-in-tube structure										
Optional parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2										
			Header: CMY-Y104, 108, 1010C-G										
Compressor Operating Range			22.2% to 100%										
AHRI Ratings (Ducted / Non-Ducted)		EER		12.70 / 14.00									
		IEER		17.50 / 20.20									
		COP @ 68°F		4.92 / 5.63									

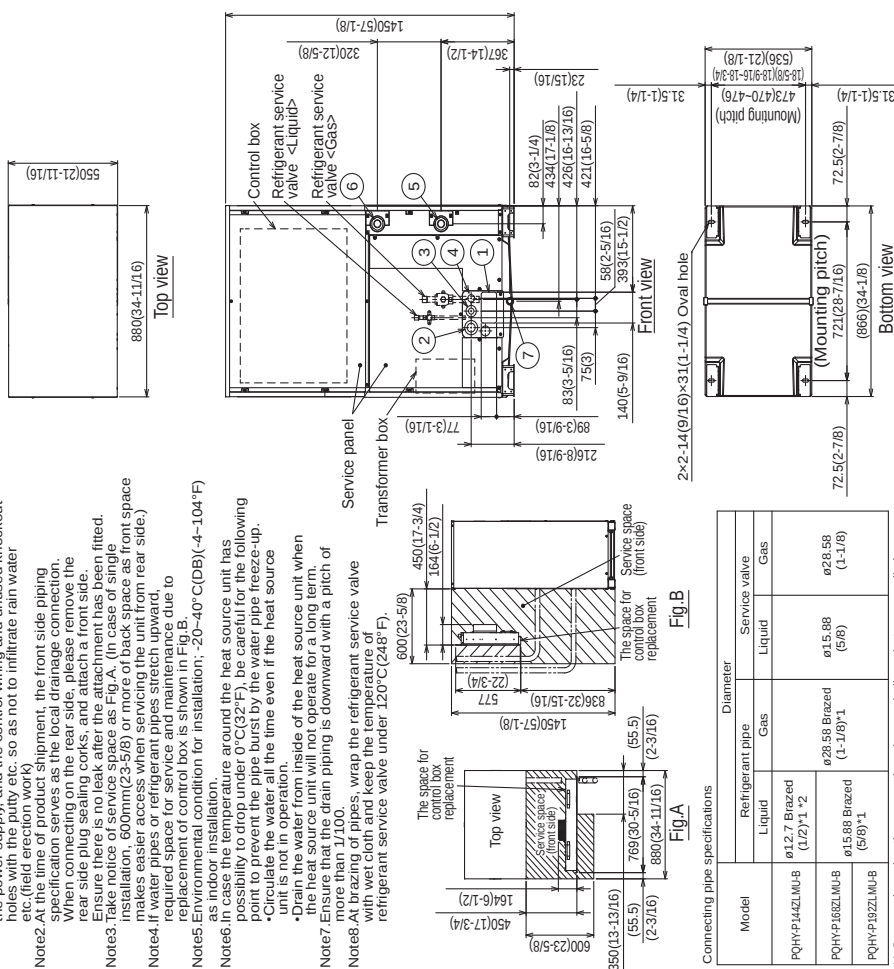
Remarks - The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.) - The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. - The Heat Source Unit should not be installed at outdoor. - Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit.	- Be sure to 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 cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).
---	--

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)
- All electrical work shall comply with National (CEC) and local codes and regulations.
- 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).
- 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.
- 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:

- <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.
 - Sealing material for base leg (two types).....4 pcs each
 - Sealing material for panel.....1pc.



Unit: mm(in)

- 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 coaks, and attach a front side.
- Note3. Ensure there is no leak after the attachment has been fitted. (Liquid and gas) (field erection work)
- Note4. (Accessories) (Packaged in the accessory kit) (field erection work) 600mm(23-5/8) or one of back space on front space makes easier access when servicing the unit from rear side.) 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 possibility to freeze the heat source unit.
- 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 the refrigerant service valve under 120°C(248°F).

Model	Refrigerant pipe			Service valve	
	Liquid	Gas	Liquid	Gas	
PQHY-P144ZLMU-B	ø12.7 Braze (1/2)*1 *2	ø15.88 Braze (1-1/8)*1	ø15.88 (5/8)	ø28.58 (1-1/8)	
PQHY-P168ZLMU-B	ø15.88 Braze (5/8)*1				
PQHY-P192ZLMU-B					

*1. Connect by using the connecting pipes and elbow that are supplied.

*2. Use the pipe (field supply) and connect to the refrigerant service valve piping.



CONFORMS TO
ANSI/UL STD. 1995
CERTIFIED TO
CAN/CSA STD.
C22. 2 NO. 236