

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)	(575)	BTU/h	168,000					
		kW	49.2					
		Power input	12.05					
		Current input	13.4					
	(Rated)	BTU/h	160,000					
		kW	46.9					
		Power input	11.98			12.47		
		Current input	13.3			13.9		
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)	(575)	BTU/h	188,000					
		kW	55.1					
		Power input	9.86					
		Current input	11.0					
	(Rated)	BTU/h	178,000					
		kW	52.2					
		Power input	8.86			9.66		
		Current input	9.8			10.7		
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 ~ 42					
Sound power level	(measured in anechoic room) ^{*3}		dB <A>		70.0			
Refrigerant	Liquid pipe		in. (mm)		5/8 (15.88) Brazed			
piping diameter	Gas pipe		in. (mm)		1-1/8 (28.58) Brazed			
Minimum Circuit Ampacity		A		21				
Maximum Overcurrent Protection		A		35				
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		11.0					
	Case heater		0.045					
	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 senor, 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			plate type					
	Water volume in plate		1.22					
			l					
	Water pressure Max.		4.6					
			psi					
		Mpa		290				
				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			18.3% to 100%					
AHRI Ratings (Ducted / Non-Ducted)	EER		12.00 / 12.90					
	IEER		16.70 / 17.90					
	COP @ 68°F		4.76 / 5.48					

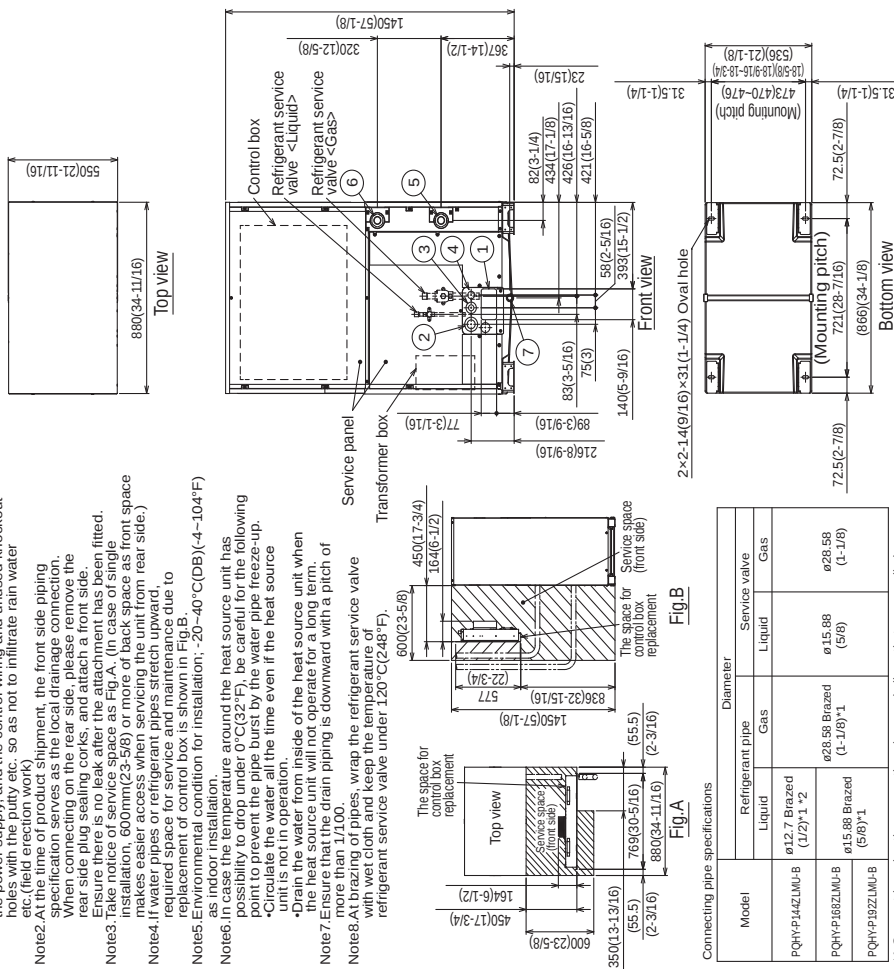
Remarks - The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (40°C D.B.) - The ambient relative humidity of the Heat Source Unit needs to be kept below 80%. - The Heat Source Unit should not be installed at outdoor. - Be sure to mount a strainer (more than 50 meshes) at 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).
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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.
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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)

No.	Usage	Specifications
①	For pipes	140 x 77 Knockout hole (5-9/16) (3-1/16)
②	For wires	ø62.7 or ø34.5 Knockout hole (2-1/2) (1-3/8)
③	For transmission cables	ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8)
④	For water pipe	ø34 Knockout hole (1-3/8)
⑤	Inlet	NPT1-1/2 Screw
⑥	Outlet	NPT1-1/2 Screw
⑦	Drain pipe	Rc3/4 Screw

- 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.
- Note3. Ensure there is no leak after the attachment has been fitted. (If there is a leak, please stop the piping work and contact the installer.)
- Note4. If water pipes or refrigerant pipes stretch upward, makes easier access when servicing the unit from rear side.)
- Note5. Replacement of control box and maintenance due to 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 of 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-P168ZLMU-B	ø12.7 Braze (1/2)"*2	ø28.58 Braze (1-1/8)"*1	ø15.88 (5/8)	ø28.58 (1-1/8)
PQHY-P168ZLMU-B	ø15.88 Braze (5/8)"*1			

*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