

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

Specifications:			Non-Ducted	Ducted
Indoor Model			3-phase 3-wire 575V ±10% 60 Hz	
Power source			336,000	
Cooling capacity			98.5	
(Nominal)			26.84	
(575)			29.9	
(Rated)			320,000	
(575)			93.8	
(575)			25.14	27.11
(575)			28.0	30.2
Temp. range of cooling			59 ~ 75°F (15 ~ 24°C)	
Indoor			50 ~ 113°F (10 ~ 45°C)	
Outdoor				
Heating capacity			378,000	
(Nominal)			110.8	
(575)			20.77	
(Rated)			23.1	
(575)			360,000	
(575)			105.5	
(575)			18.49	19.10
(575)			20.6	21.3
Temp. range of heating			59 ~ 81°F (15 ~ 27°C)	
Indoor			50 ~ 113°F (10 ~ 45°C)	
Outdoor				
Indoor unit connectable			50 ~ 130% of heatsource unit capacity	
Model / Quantity			P04 ~ P96 / 2 ~ 50	
Sound power level (measured in anechoic room)			73.0	
Refrigerant			3/4 (19.05) Braze	
piping diameter			1-5/8 (41.28) Braze	
AHRI Ratings			11.10 / 12.20	
(Ducted / Non-Ducted)			16.20 / 16.70	
COP @ 68°F			4.76 / 5.36	

Set Model			PQHY-P168ZLMU-B	PQHY-P168ZLMU-B
Model				
Minimum Circuit Ampacity			21	21
Maximum Overcurrent Protection			35	35
Circulating water			1,902 ± 1,902	
Water flow rate			31.7 ± 31.7	
			7.20 ± 7.20	
			120 ± 120	
			4.2 ± 4.2	
Pressure drop			6.38	6.38
			44	44
Operating volume range			1,189 ± 1,189 ~ 3,054 ± 3,054	
			19.8 ± 19.8 ~ 50.9 ± 50.9	
			4.5 ± 4.5 ~ 11.6 ± 11.6	
Compressor			Inverter scroll hermetic compressor x1	Inverter scroll hermetic compressor x1
Type x Quantity			Inverter	Inverter
Starting method			11.0	11.0
Motor output			0.045	0.045
Case heater			MEL32	MEL32
Lubricant				
External finish			Galvanized steel sheets	
External dimension H x W x D			57-1/8 x 34-11/16 x 21-11/16 (1,450 x 880 x 550)	57-1/8 x 34-11/16 x 21-11/16 (1,450 x 880 x 550)
Protection devices			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			R410A x 13 lbs ± 4 oz (6.0 kg)	R410A x 13 lbs ± 4 oz (6.0 kg)
Type x original charge			LEV and HIC circuit	LEV and HIC circuit
Control			499 (226)	499 (226)
Net weight			plate type	plate type
Heat Exchanger			1.22	1.22
Water volume in plate			4.6	4.6
Water pressure Max.			290	290
			2.0	2.0
HIC circuit (HIC: Heat Inter-Change)			Copper pipe, tube-in-tube structure	Copper pipe, tube-in-tube structure
Pipe between unit and distributor			5/8 (15.88) Braze	5/8 (15.88) Braze
Liquid pipe			1-1/8 (28.58) Braze	1-1/8 (28.58) Braze
Gas pipe			Heat Source Twinning kit: CMY-Y200CBK2	
Optional parts			Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2	
			Header: CMY-Y104, 108, 1010C-G	
Compressor Operating Range			18.3% to 100%	18.3% to 100%

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:	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:

- 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.

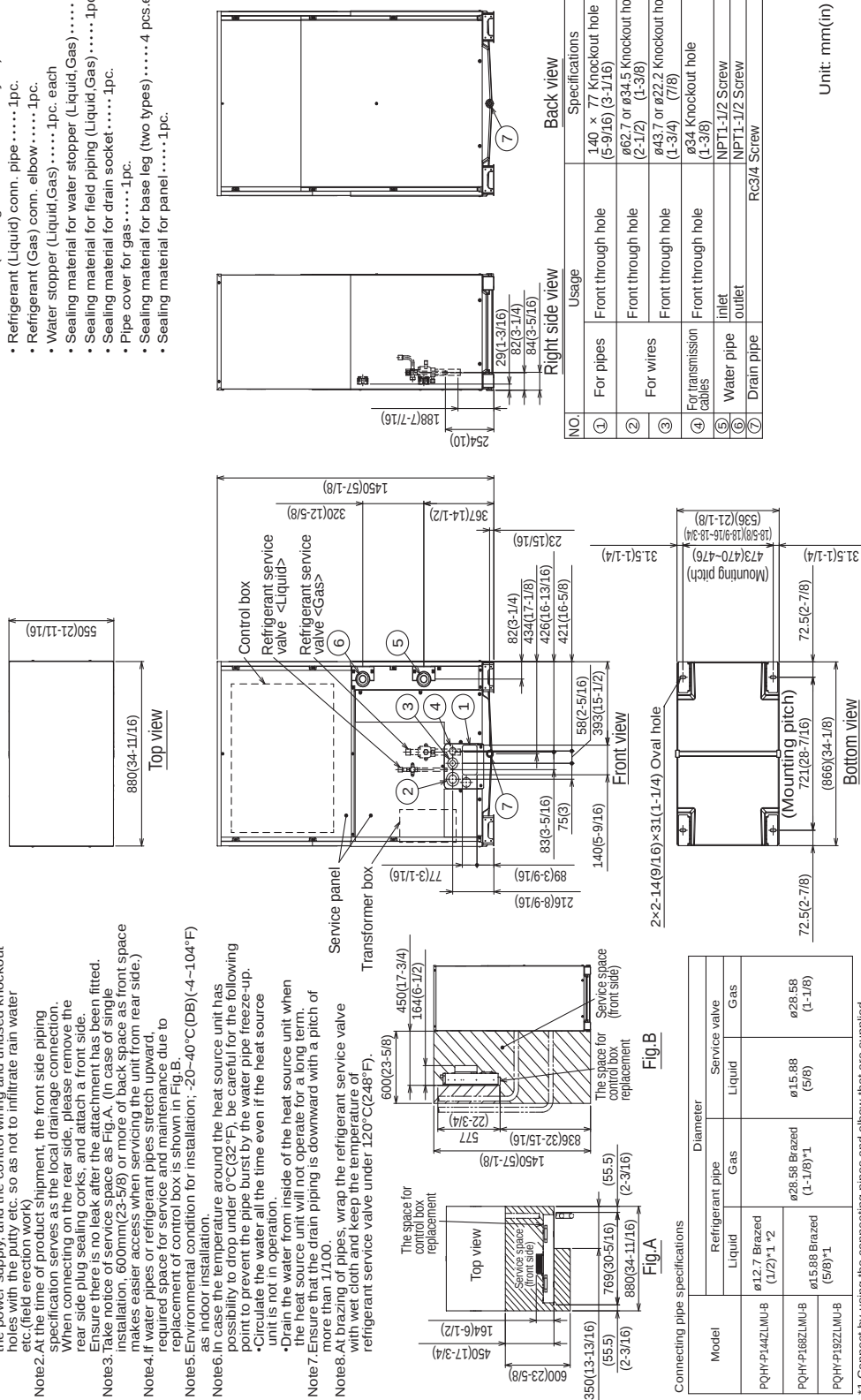


Fig. B

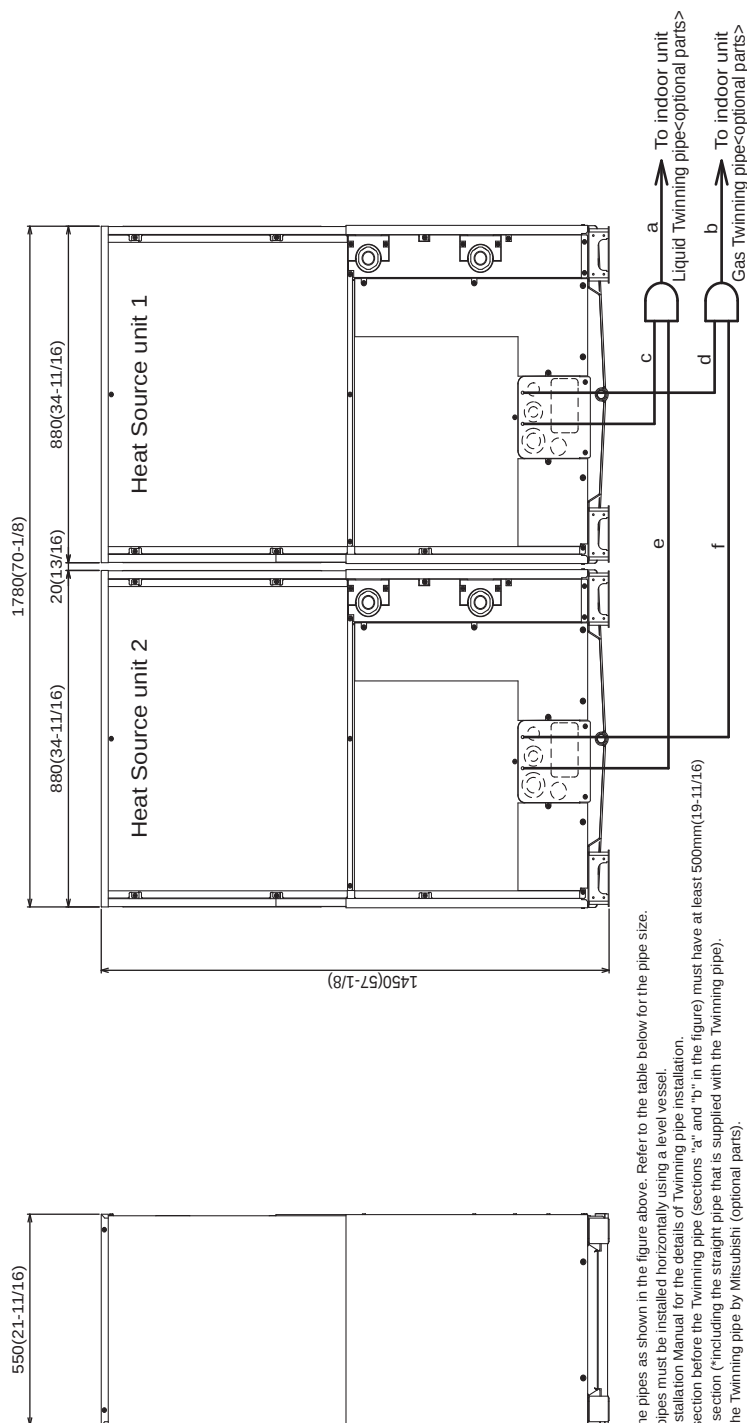
Fig. A

Connecting pipe specifications				
Model	Refrigerant pipe		Diameter	
	Liquid	Gas	Liquid	Service valve
PQH-Y-P142ZLMU-B	ø12.7 Braze (1/2") 1/2"			
PQH-Y-P168ZLMU-B	ø15.88 Braze (5/8)"1	ø28.58 Braze (1-1/8)"1	ø15.88 (5/8)	ø28.58 (1-1/8)
PQH-Y-P192ZLMU-B				

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

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

Condenser Unit Outline and Dimensions:



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 100 mm 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	Package unit name	Component unit name	Heat Source unit 1	Heat Source unit 2	QPH-F286Z-SLMU-B	QPH-F312Z-SLMU-B	QPH-F336Z-SLMU-B	QPH-F360Z-SLMU-B
CMT-Y200C3B-K2	Wiring Kit(optional parts)	Indoor unit - Twinning pipe	Liquid	a	ø34.93(1.38)	ø12.1(1/2)	ø15.88(5/8)	ø11.28(1/2-5/8)
			Gas	b				
			Liquid	c	ø12.1(1/2)	ø15.88(5/8)	ø11.28(1/2-5/8)	
			Gas	d				
CMT-Y200C3B-K2	Wiring Kit(optional parts)	Indoor unit - Twinning pipe- Heat Source unit 1	Liquid	a	ø34.93(1.38)	ø12.1(1/2)	ø15.88(5/8)	ø11.28(1/2-5/8)
			Gas	b				
			Liquid	c	ø12.1(1/2)	ø15.88(5/8)	ø11.28(1/2-5/8)	
			Gas	d				
CMT-Y200C3B-K2	Wiring Kit(optional parts)	Indoor unit - Twinning pipe- Heat Source unit 2	Liquid	a	ø34.93(1.38)	ø12.1(1/2)	ø15.88(5/8)	ø11.28(1/2-5/8)
			Gas	b				
			Liquid	c	ø12.1(1/2)	ø15.88(5/8)	ø11.28(1/2-5/8)	
			Gas	d				



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