

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			312,000	
(Nominal)			91.4	
Power input			23.41	
(575) Current input			26.1	
(Rated)			298,000	
Power input			87.3	
(575) Current input			22.45	24.98
Temp. range of cooling			25.0	27.8
Indoor			59 ~ 75°F (15 ~ 24°C)	
Outdoor			50 ~ 113°F (10 ~ 45°C)	
Heating capacity (Nominal)			350,000	
Power input			102.6	
(575) Current input			19.11	
(Rated)			21.3	
Power input			334,000	
(575) Current input			97.9	
Temp. range of heating			17.09	17.12
Indoor			59 ~ 81°F (15 ~ 27°C)	
Outdoor			50 ~ 113°F (10 ~ 45°C)	
Indoor unit connectable			50 ~ 130% of heatsource unit capacity	
Model / Quantity			P04 ~ P96 / 2 ~ 50	
Sound power level (measured in anechoic room) *3			72.5	
Refrigerant			3/4 (19.05) Braze	
piping diameter			1-3/8 (34.93) Braze	
AHRI Ratings			11.20 / 12.70	
(Ducted / Non-Ducted)			16.70 / 17.80	
EER			4.88 / 5.37	
IEER				
COP @ 68°F				

Set Model			PQHY-P168ZLMU-B	PQHY-P144ZLMU-B
Model				
Minimum Circuit Ampacity			21	15
Maximum Overcurrent Protection			35	25
Circulating water				
Water flow rate			1,902 ± 1,902	
G/h			31.7 ± 31.7	
G/min			7.20 ± 7.20	
m³/h			120 ± 120	
L/min			4.2 ± 4.2	
cfm				
Pressure drop			6.38	6.38
psi			44	44
kPa				
Operating volume range			1,189 ± 1,189 ~ 3,054 ± 3,054	
G/h			19.8 ± 19.8 ~ 50.9 ± 50.9	
G/min			4.5 ± 4.5 ~ 11.6 ± 11.6	
m³/h				
Compressor			Inverter scroll hermetic compressor x1	Inverter scroll hermetic compressor x1
Type x Quantity			Inverter	Inverter
Starting method			11.0	9.5
Motor output			0.045	0.045
kW				
Case heater			MEL32	MEL32
kW				
Lubricant				
External finish			Galvanized steel sheets	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)
High Pressure protection			Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
Inverter circuit			Over-heat protection	Over-heat protection
Compressor				
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				
Net weight			499 (226)	499 (226)
Heat Exchanger			plate type	plate type
Water volume in plate			1.22	1.22
G			4.6	4.6
I			290	290
Water pressure Max.			2.0	2.0
psi				
Mpa				
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				
Optional parts			Heat Source Twinning kit: CMY-Y200CBK2	
			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%	22.2% 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.

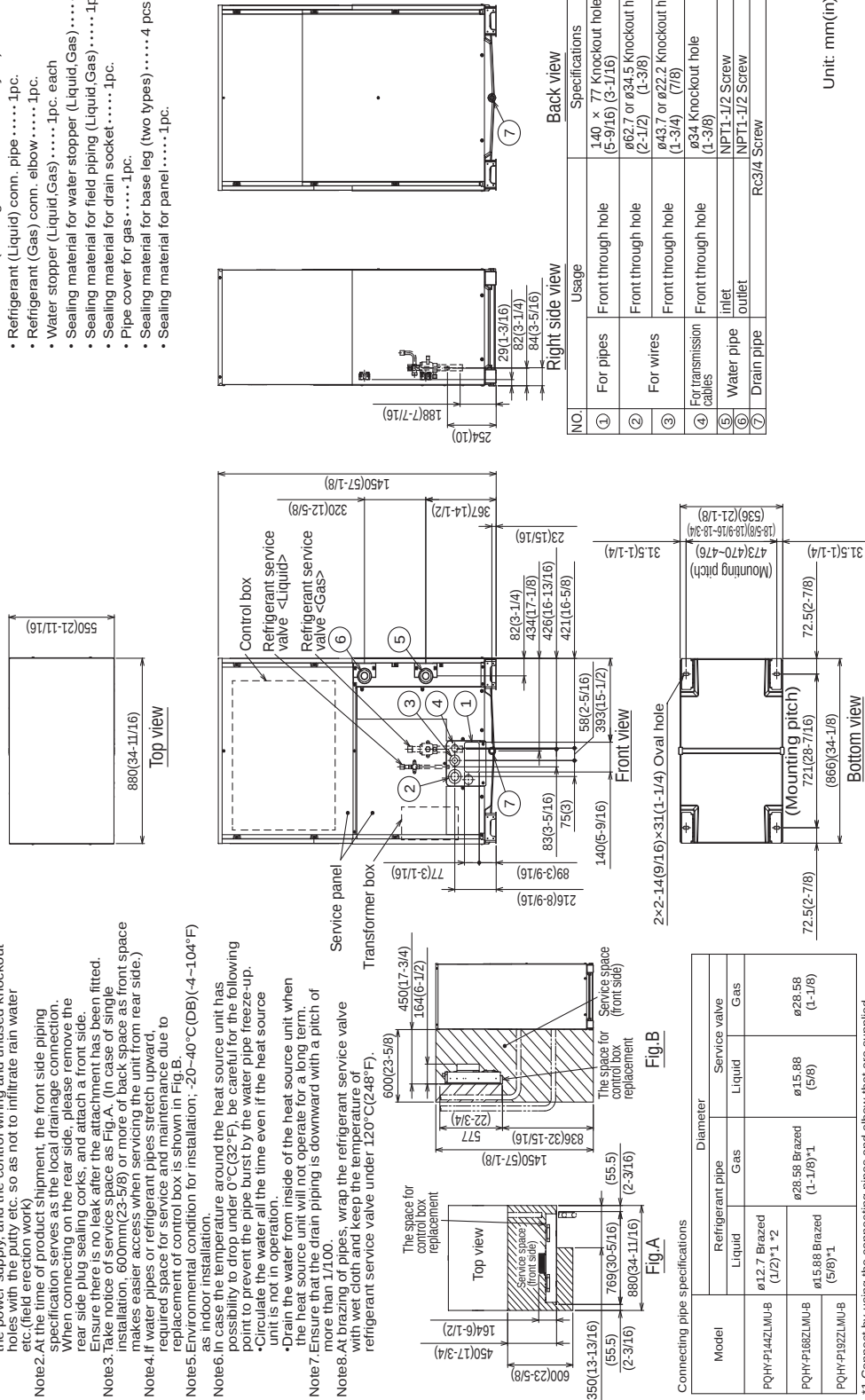
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MESCA assumes no responsibility for any consequences in such cases.

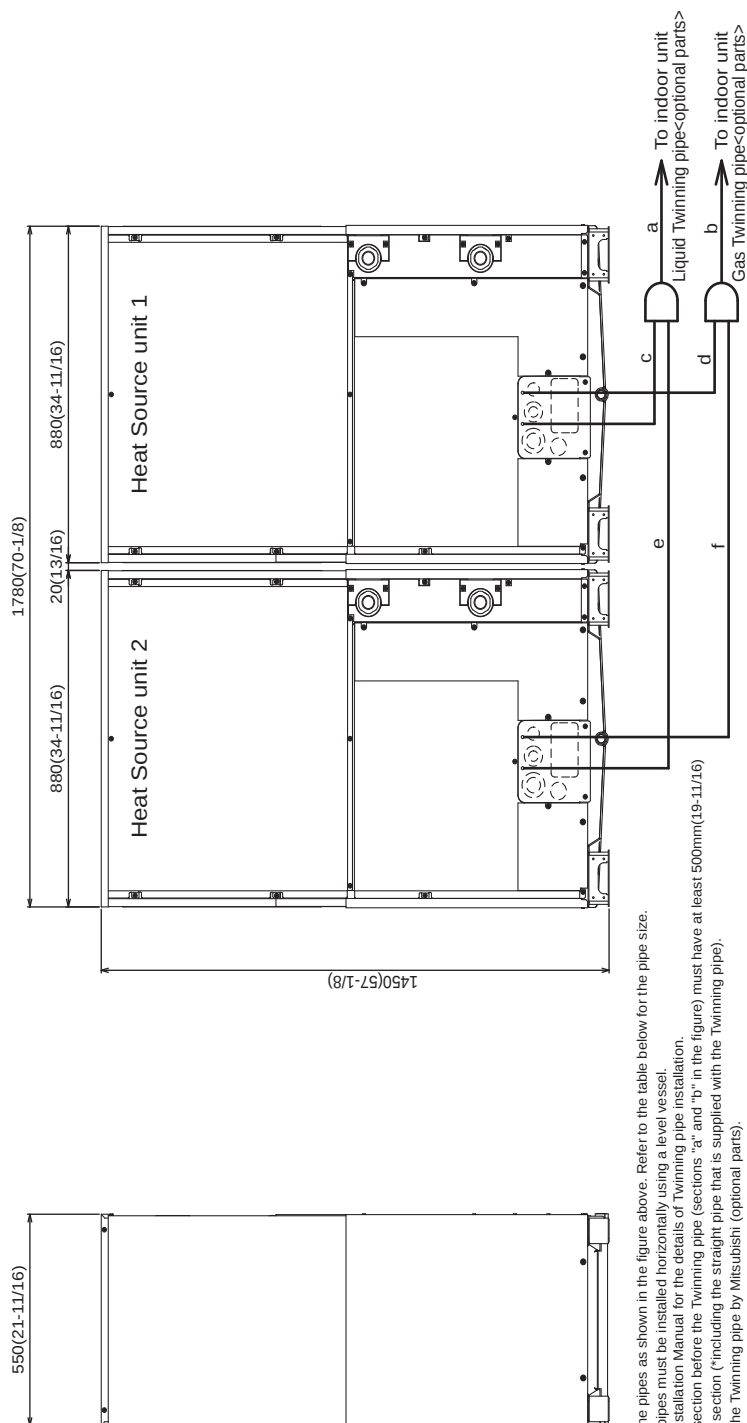
Condenser Unit Outline and Dimensions:

- <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)

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
TWINNING Kf(optional parts)	Indoor unit - Twinning pipe	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
TWINNING Kf(optional parts)	Twinning pipe - Heat Source unit 1	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
TWINNING Kf(optional parts)	Twinning pipe - Heat Source unit 2	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		



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