

Submittal Data: PQRY-P144ZLMU-B

Job Name:		Location:	
Purchaser:		Submitted By:	
Submitted To:		Engineer:	
Date:		Application:	

☐ Reference
 ☐ Approval
 ☐ Construction



*Reference image

GENERAL FEATURES:

- Simultaneous heating and cooling operation
- Double heat recovery operation within refrigerant loop and water loop
- Water flow rate control via DC 0-10V from control board
- Compatible with Mitsubishi Hybrid VRF system with HBC Controller(s)

Accessory	Model Numbers
Joint	CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-R160-J1, CMY-R201, 202, 306S-G, CMY-R302, 303, 304, 305S-G1
Main BC Controller	CMB-P108, 1012, 1016NU-JA2, CMB-P1016NU-KA2
Sub BC Controller	CMB-P104, 108NU-KB2
Main HBC Controller	CMB-WP108, CMB-1016NU-AA
Sub-HBC Controller	CMB-WP108, CMB-1016NU-AB

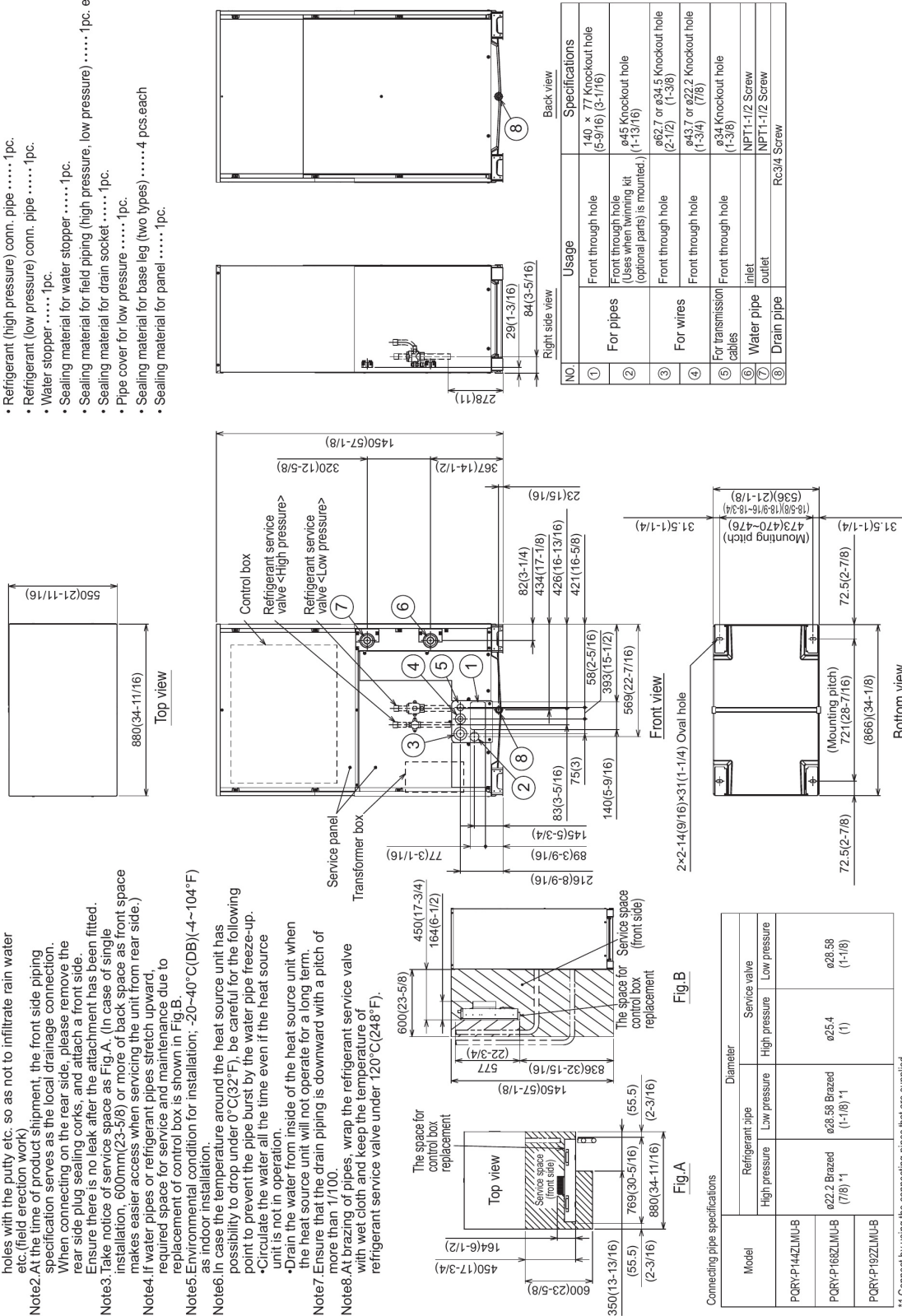
Outdoor Model	PQRY-P144ZLMU-B	
Power Source	3-phase 3-wire 575 V ±10% 60 Hz	
Cooling		
Cooling Capacity (Nominal)	144000	BTU/h
Cooling Capacity (Nominal)	42.2	kW
Power Input (Nominal)	8.78	kW
Current Input (Nominal)	9.7	A
Cooling Capacity (Rated)	138000	BTU/h
Cooling Capacity (Rated)	40.4	kW
Power Input (Rated) Non-Ducted/ Ducted	9.44/10.12	kW
Current Input (Rated) Non-Ducted/ Ducted	10.5/11.2	A
Guaranteed Operating Range (Indoor)	59.0°F~75.0°F W.B. (15.0°C~24.0°C)	
Guaranteed Operating Range (Outdoor)	50~113°F (10~45°C)	
Heating		
Heating Capacity (Nominal)	160000	BTU/h
Heating Capacity (Nominal)	46.9	kW
Power Input (Nominal)	8.11	kW
Current Input (Nominal)	9	A
Heating Capacity (Rated)	152000	BTU/h
Heating Capacity (Rated)	44.5	kW
Power Input (Rated) Non-Ducted/ Ducted	7.29/7.92	kW
Current Input (Rated) Non-Ducted/ Ducted	8.1/8.8	A
Operating Range (Indoor)	59.0°F~81.0°F D.B. (15.0°C~27.0°C)	
Operating Range (Outdoor)	50~113°F (10~45°C)	
Electrical		
Minimum Circuit Ampacity (MCA)	15	A
Maximum Overcurrent Protection (MOP)	25	A
Refrigerant Piping		
High Pressure Diameter	7/8 (22.2) Brazed	in (mm)
Low Pressure Diameter	1-1/8 (28.58) Brazed	in (mm)
Circulating Water		
Circulating water flowrate	31.7 (120)	G/min (L/min)
Circulating water Pressure drop	6.38 (44)	psi (kPa)
Circulating water flowrate/pressure operating range	19.8 ~ 50.9 (4.5~11.6)	G/min (m3/h)
Compressor		
Type × Quantity	Inverter scroll hermetic × 1	
Motor Output	9.5	kW
Starting Method	Inverter	
Case Heater	0.045	kW
Lubricant	MEL32	
Physical & Finish		
External finish	Galvanized steel sheet	
External Dimensions (H × W × D)	57-1/8 x 34-11/16 x 21-11/16	in
External Dimensions (H × W × D)	1,450 x 880 x 550	mm
Net Weight	510 (231)	lb (kg)
Sound Levels		
Sound Power Level (in anechoic room)	68	dB<A>
Indoor Unit Connectable		
Total Capacity	50~150% of heat source unit capacity	
Model / Maximum Quantity	P04~P96/36	
Refrigerant		
Type × Original Charge	R410A x 13 lbs + 4 oz (6.0 kg)	

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. 23°F EWT (Entering water temperature) is possible via DipSwitch Setting. Antifreeze (glycol) must be added to the water loop to prevent freezing down to 5°F
5. The ambient temperature of the Heat Source Unit is to be below 104°F D.B. (40°C D.B.)
6. The ambient relative humidity of the Heat Source Unit is to be below 80%.
7. The Heat Source Unit should not be installed at outdoor.
8. Use a strainer (more than 50 meshes) at the water inlet piping of the unit.
9. Provide interlocking for the unit operation and water circuit.
10. Install the supplied insulation material to the unused drain-socket.
11. When installing insulation material around both water and refrigerant piping, follow the installation manual.
12. The water circuit must be a closed circuit (water is not exposed to the atmosphere).
13. All electrical work shall comply with Nation (CEC) and local codes and regulations
14. Should this document be altered or changed without MESCA's permission, it becomes null and void. MESCA assumes no responsibility for any consequences in such cases.
15. Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved accessories. Use of non-MESCA supported accessories will affect warranty coverage

Unit: mm(in)

- Accessories (Packaged in the accessory kit) >
- Refrigerant (high pressure) conn. pipe 1pc.
- Refrigerant (low pressure) conn. pipe 1pc.
- Water stopper 1pc.
- Sealing material for water stopper 1pc.
- Sealing material for field piping (high pressure, low pressure) 1pc. each
- Sealing material for drain socket 1pc.
- Pipe cover for low pressure 1pc.
- Sealing material for base leg (two types) 4 pcs each
- Sealing material for panel 1pc.



Model		Diameter			
		Refrigerant pipe		Service valve	
		High pressure	Low pressure	High pressure	Low pressure
PQRY-P144ZLWU-B					
PQRY-P168ZLWU-B		ø22.2 Braze (7/8) *1	ø28.58 Braze (1-1/8) *1	ø25.4 (1)	ø28.58 (1-1/8)
PQRY-P192ZLWU-B					

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