

Job Name:

System Reference:

Date:

**FEATURES**

- Single modules up to 20 tons with the ability to combine single modules for systems up to 30 tons
- 208/230V, 3-Phase, 60Hz and 460V, 3-Phase, 60Hz options
- Designed for closed water loops
- Dual heat recovery - from water loop and refrigerant circuit
- 0-10V output signal to modulate water flow for compliance with energy codes
- Features Variable Evaporating Temperature (VET) technology, which enables the outdoor unit to raise the target evaporation temperature based on the difference between set point and return air temperature, saving energy.
- Water flow can be stopped while the unit is in a thermo-off state, saving on pump energy consumption. For twinned systems, both modules must be thermo-off to stop water flow.
- Enhanced water-side heat exchanger design for improved efficiency and reduced risk of clogging
- Self-cooling cabinet design
- Inlet water temperature range: 23-113° F
- Max. Total Refrigerant Piping Length: up to 2,460 feet based on model
- Connects to CITY MULTI® indoor units; controlled via CITY MULTI® Controls Network (CMCN)
- External finish: Acrylic-painted steel
- Stack multiple units on a field-supplied rack to take advantage of vertical space when available
- Extended 10-year parts and compressor warranty available

ACCESSORIES

- Joint Kit (for details see Pipe Accessories Submittal)
- BC Controller (for details see BC Controller Submittal)

SPECIFICATIONS: PQRV-P192TLMU-A1

Specifications		Model Name	
Unit Type		PQRV-P192TLMU-A1	
Nominal Cooling Capacity (208/230V)	Btu/h	192,000	
Nominal Heating Capacity (208/230V)	Btu/h	215,000	
Operating Temperature Range	Cooling (Indoor)	W.B.	59~75°F (15~24°C)
	Heating (Indoor)	D.B.	59~81°F (15~27°C)
Operating Water Temperature Range	Circulating water	°F	50~113°F (10~45°C)
	Circulating water	°F	50~113°F (10~45°C)
External dimension H x W x D	In.	57-1/8 x 34-11/16 x 21-11/16	
	mm	1,450 x 880 x 550	
Net weight	lbs. (kg)	481 (218)	
External finish		Galvanized steel sheets	
Electrical Power Requirements	Voltage, Phase, Hertz		208 / 230V, 3-phase, 60Hz
Minimum Circuit Ampacity	A	54 / 49	
Maximum Overcurrent Protection	A	90 / 80	
Circulating Water (quality must meet regulations)			
Flow Rate	G/min (gpm)	31.7	
	L/s	2	
Pressure Drop	Ft.	14.7	
	psi	6.38	
Operation Volume Range	G/min (gpm)	19.8 ~ 50.9	
	L/m	75 ~ 193	
Maximum Water Pressure	MPa	2	
	psi	290	
Water-source Connection for Inlet and Outlet	In.	1-1/2 NPT	
Piping Diameter (Brazed)	Liquid (High Pressure)	In. (mm)	7/8 (22.2)
	Gas (Low Pressure)	In. (mm)	1-1/8 (28.58)
Max. Total Refrigerant Line Length	Ft.	2,460	
Max. Refrigerant Line Length (Between ODU & IDU)	Ft.	541	
Max. Control Wiring Length	Ft.	1,640	
Indoor Unit	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P06~P96/1~48
Sound pressure level (measured in anechoic room)	dB(A)	58	
Compressor Operating Range	14% - 100%		
Compressor Type x Quantity	Inverter scroll hermetic compressor x 1		
Motor output	kW	12.4	
Lubricant	MEL32		
Refrigerant	R410A x 13 lbs. + 4 oz. (6.0 kg)		

SPECIFICATIONS: PQRYP192TLMU-A1

Specifications		Model Name
Unit Type		PQRYP192TLMU-A1
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
AHRI Ratings (Ducted/Non-Ducted)	EER	11.5 / 12.4
	IEER	18.4 / 21.7
	COP	4.60 / 5.15
	SCHE	20.3 / 20.3

Notes:

DIMENSIONS: PQRY-P192TLMU-A1

Note1. Seal around the water piping, the refrigerant piping, the power supply, and the control wiring and plug unused knockout holes with putty, etc., to prevent moisture or dirt from entering cabinet.

Note2. At the time of product shipment, the front side piping serves as the local drainage connection.

Note3. See Fig. A and Fig. B for service clearances.

Note4. If piping is installed in front of the unit, provide clearances as shown in Fig. A and Fig. B.

Note5. Environmental condition for installation; -20~40°C(DB) (-4~104°F) for 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 point to prevent the pipe burst by the water pipe freeze-up.

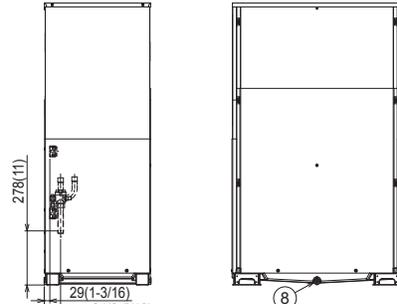
Note7. Ensure that the drain piping is downward with a pitch of more than 1/100.

Note8. At brazing of pipes, wrap the refrigerant service valve with wet cloth and keep the temperature of refrigerant service valve under 120°C(248°F).

<Accessories>

- Refrigerant (high pressure) conn. pipe..... 1pc.
(P144/P168/P192; Packaged in the accessory kit)
- Refrigerant (low pressure) conn. pipe..... 1pc.
(P144/P168/P192; Packaged in the accessory kit)
- Water stopper..... 1pc.
(P144/P168/P192; Packaged in the accessory kit)
- Sealing material for water stopper..... 1pc.
(P144/P168/P192; Packaged in the accessory kit)
- Sealing material for field piping (high pressure, low pressure)..... 1pc. each
(P144/P168/P192; Packaged in the accessory kit)
- Sealing material for drain socket..... 1pc.
(P144/P168/P192; Packaged in the accessory kit)
- Pipe cover for low pressure..... 1pc.
(P144/P168/P192; Packaged in the accessory kit)
- Sealing material for base leg (two types)..... 4pc. each
(P144/P168/P192; Packaged in the accessory kit)
- Sealing material for panel..... 1pc.
(P144/P168/P192; Packaged in the accessory kit)

Top of unit casing not suitable for supporting system modules stacked above - field framing required for stacking modules of additional systems

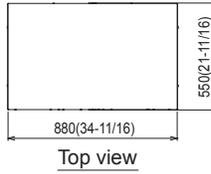


Right side view

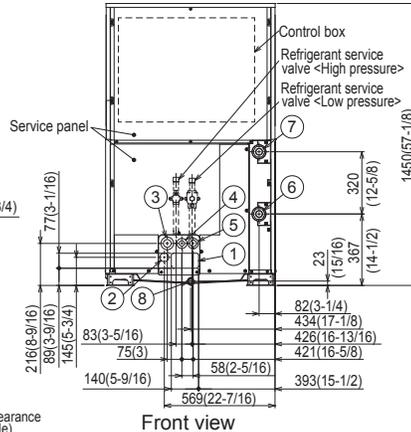
Back view

NO.	Usage	Specifications
①	Front through hole	140 × 77 Knockout hole (5-9/16) (3-1/16)
②	For pipes	Front through hole (Uses when twinning kit (optional parts) is mounted.)
③	For wires	Front through hole
④	For wires	Front through hole
⑤	For transmission cables	Front through hole
⑥	Water pipe inlet	NPT1-1/2 Screw
⑦	Water pipe outlet	NPT1-1/2 Screw
⑧	Drain pipe	Rc3/4 Screw

Unit : mm(in)



Top view



Front view

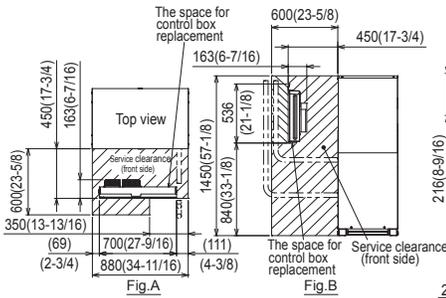


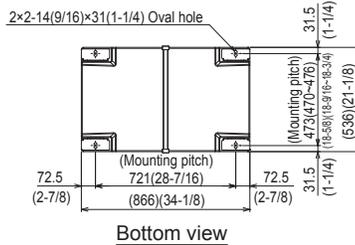
Fig.A

Fig.B

Connecting pipe specifications

Model	Diameter			
	Refrigerant pipe		Service valve	
	High pressure	Low pressure	High pressure	Low pressure
PQRY-P144TLMU-A1				
PQRY-P168TLMU-A1	ø22.2 Brazed (7/8) *1	ø28.58 Brazed (1-1/8) *1	ø25.4 (1)	ø28.58 (1-1/8)
PQRY-P192TLMU-A1				

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



Bottom view



COOLING & HEATING

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FORM# PQRY-P192TLMU-A1 - 201710

Specifications are subject to change without notice.

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