

Job Name:

Schedule Reference:

Date:



PWFY-P72NMU-E2-AU

GENERAL FEATURES

- Dual set point functionality (*1)
- **Heats water to 113°F (45°C)**
 - Hydronic heat exchanger transfers energy from refrigerant to water
 - Can be used to recover waste heat from cooling operation to water, resulting in large energy savings
 - Applications include radiant heating, melting snow, reheating air, preheating hot water and many other uses
- **Cools water to 50°F (10°C)**
 - Can be used for precooling outside air, cooling pool water, misting stations, process cooling, drinking water and more
- Unit is not suitable for direct potable water flow
- Connectable with CITY MULTI R2, Y, H2i, WR2 and WY systems
- Y-strainer included
- Flow switch

SPECIFICATIONS:**Capacity***

Cooling	Btu/h	72,000
Heating	Btu/h	79,800

*Cooling | Outdoor: 95°F (35°C) DB
Inlet Water Temperature: 149°F (23°C)
Water Flow Rate: 16.9 GPM

Heating | Outdoor: 47°F (8.3°C) DB / 43°F (1°C) WB
Inlet Water Temperature: 86°F (30°C)
Water Flow Rate: 18.9 GPM

* Not compatible with:
PURY/PQRY-T/YGMU or PUHY/PQHY-T/YGMU units

Note: Mitsubishi Electric (MESCA) supports the use of only MESCA supplied and approved accessories for proper functioning of the unit(s). Use of non-MESCA supported accessories will affect warranty coverage.

Electrical

Electrical Power Requirements	1-phase, 208 / 230V, 60Hz	
Minimum Circuit Ampacity (MCA) *	A	0.09
Maximum Fuse Size	A	15

*** All electrical work shall comply with National (CEC) and local codes and regulations.**

*1 – All components of the system must be compatible. For more details on system compatibility, please refer to Technical Bulletin 100-151 available on our website.

Notes:

Specifications are subject to change without notice.

Controllers	PAR-W21MAA
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Operating Inlet Water Temperature Range

Cooling	50°F to 95°F (10°C to 35°C)
Heating	50°F to 105°F (10°C to 41°C)

Outdoor Temperature Range

Cooling	23 to 115°F (-5 to 46°C) WR2/R2-Series 23 to 115°F (-5 to 46°C) H2i R2-Series 23 to 115°F (-5 to 46°C) WY/Y-Series 23 to 109°F (-5 to 43°C) H2i Y-Series
Heating	-4 to 90°F (-20 to 32°C) WR2/R2-Series -13 to 90°F (-25 to 32°C) H2i R2-Series -4 to 60°F (-20 to 15.5°C) WY/Y-Series -13 to 60°F (-25 to 15.5°C) H2i Y-Series

External Finish	Galvanized-steel Sheet
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External Dimensions

Height	In.(mm)	31-1/2 (800)
Width	In.(mm)	17-3/4 (450)
Depth	In.(mm)	11-13/16 (300)

Net Weight	Lbs.(kg)	80 (36)
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Refrigerant

Type	R410A	
Design Pressure	MPa (psi)	4.15 (601)

Circulating Water

Operation Volume Range	GPM (L/m)	7.9-18.9 (30-72)
Design Pressure	MPa (psi)	1 (145)

Refrigerant Piping Diameter (Brazed)

Liquid (High Pressure)	In.(mm)	3/8 (9.52)
Gas (Low Pressure)	In.(mm)	3/4 (19.05)

Water Piping Dimensions

Inlet	In.(mm)	PT 1 (34) Screw (PT 3/4 Screw without expansion joint)
Outlet		

Drain Pipe Dimension	In.(mm)	O.D. 1-1/4 (32)
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Sound Data	dB(A)	29
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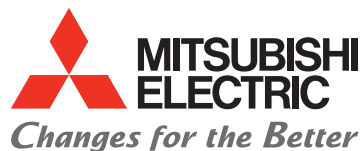
Design notes:

- the unit is not designed for outside installation
- please don't use the steel material for the water piping material
- always make water circulate or add the brine/glycol to the circulation water when outdoor ambient temperature becomes 0°C (32°F) or less
- always make water circulate or pull out the circulation water completely when not using it - do not use groundwater and well water
- Install unit in an environment where the wet bulb temperature will not exceed 32°C (92°F)
- the water circuit must use closed circuit - please do not use as a drinking water

*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.



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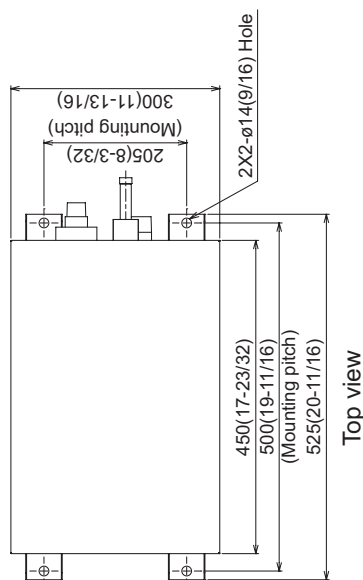


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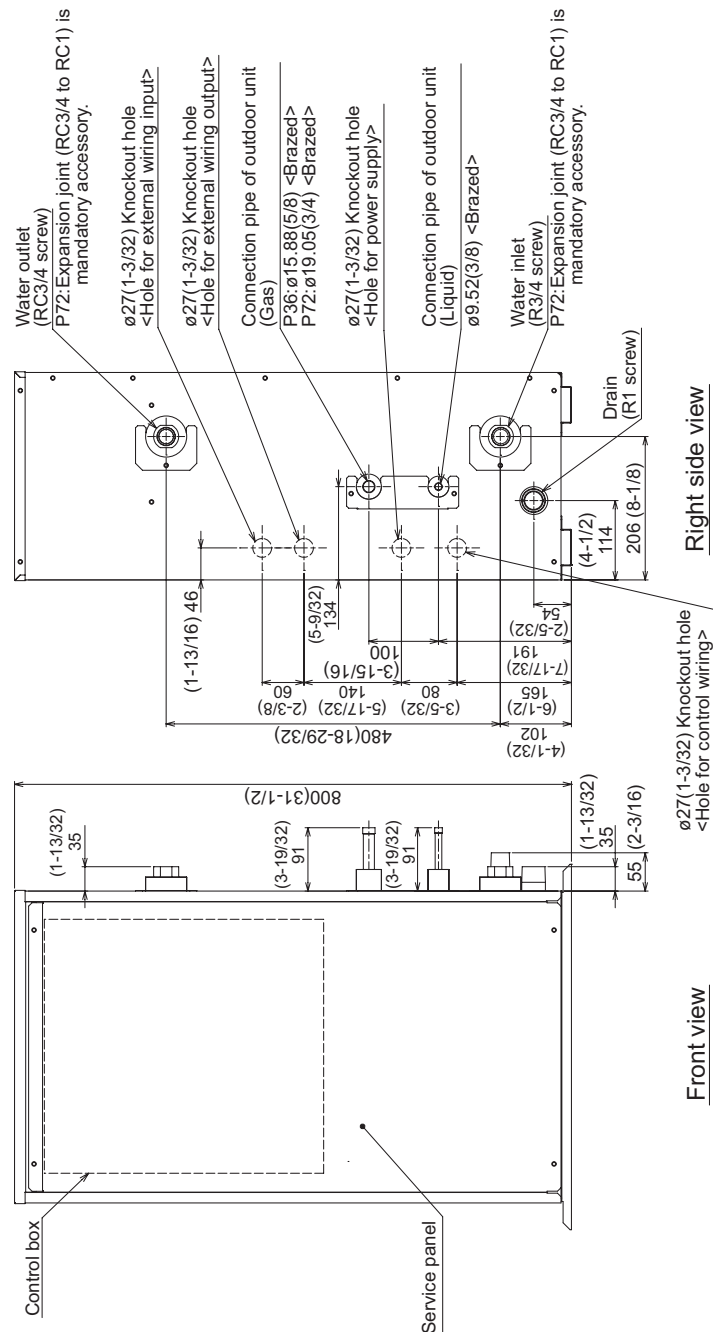


- <Accessories>
 - Y-type strainer(RC3/4).....1pc.
 - Heat insulation material.....1pc.
 - Expansion joint(P72).....2pcs.
- [From RC3/4 to RC1]
 - Flow switch.....1set
 - Washer.....1pc.
 - Buffer material.....1pc.

- Note 1. Ensure no water or debris can enter the unit through any gaps around wiring or piping.
2. Ensure adequate both service and piping space, as shown in Fig A.
3. Please always make water circulate or add the brine to the circulation water when the ambient temperature becomes 0°C(32°F) or below.
4. The unit is not designed for outside installations.
5. Please always make water circulate or remove all circulation water completely when not in operation.
6. The water circuit must be the closed circuit.
7. Please don't use the steel material for the water piping.
8. Connect the strainer as accessory for unit to water inlet pipe.



Top view



Right side view

Front view

Fig. A

<Unit:mm(in)>

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