CITYMULTI®

# 6-TON PUHY-P72YNU-A(-BS)

MITSUBISHI ELECTRIC
HEATING & AIR CONDITIONING

Job Name:

System Reference: Date:

## 460V OUTDOOR VRF HEAT PUMP SYSTEM



## UNIT OPTION

☑ Standard Model ..... PUHY-P72YNU-A

☑ Seacoast (BS) Model ..... PUHY-P72YNU-A-BS

## ACCESSORIES

☑ Big Foot Stand ..... for details see Big Foot Stands submittals

☑ Header Kit ..... for details see Pipe Accessories Submittal

☑ Joint Kit ..... for details see Pipe Accessories Submittal

☑ Low Ambient Kit ..... for details see Low Ambient Kit Submittal

☑ Panel Heater Kit ..... for details see Panel Heater Kit Submittal

☑ Snow/Hail Guards Kit ..... for details see Snow/Hail Guards Kit Submittal

| Specifications | | | System |
|---|---|---|---|
| Unit Type | | | PUHY-P72YNU-A(-BS) |
| Cooling Capacity (Nominal) | | BTU/H | 72,000 |
| Heating Capacity (Nominal) | | BTU/H | 80,000 |
| Guaranteed Operating Range | Cooling | °F [°C] | 23~126 [-5.0~52.0] |
| | Heating | °F [°C] | -13~60 [-25.0~15.5] |
| Extended Operating Range | Heating | °F [°C] | -18.0~60 [-28.0~15.5] |
| External Dimensions (H x W x D) | | In. [mm] | 71-5/8 x 36-1/4 x 29-3/16 [1,818 x 920 x 740] |
| Net Weight | | Lbs. [kg] | 503 [228] |
| External Finish | | | Pre-coated galvanized steel sheet (+powder coating for -BS type) [MUNSELL 3Y 7.8/1.1 or similar] |
| Electrical Power Requirements | Voltage, Phase, Hertz, Power Tolerance | | 460V, 3-phase, 60 Hz, ±10% |
| Minimum Circuit Ampacity | | A | 13.0 |
| Maximum Overcurrent Protection | | A | 20 |
| Recommended Fuse Size | | A | 15 |
| Recommended Minimum Wire Size | | AWG [mm] | 14 [2.1] |
| SCCR | | kA | 5 |
| Refrigerant Piping Diameter | Liquid (High Pressure) | In. [mm] | 3/8 [9.52] Brazed |
| | Gas (Low Pressure) | In. [mm] | 7/8 [22.2] Brazed |
| Max. Total Refrigerant Line Length | | Ft. | 3,280 |
| Max. Refrigerant Line Length (Between ODU & IDU) | | Ft. | 541 |
| Max. Control Wiring Length | | Ft. | 1,640 |
| Indoor Unit Connectable | Total Capacity | | 50.0~130.0% of outdoor unit capacity |
| | Model/Quantity | | P04~P72/1.0~18.0 |
| Sound Pressure Levels | | dB(A) | 55.0/57.5 |
| Sound Power Levels | | dB(A) | 74.0/76.5 |
| FAN[4] | Type x Quantity | | Propeller fan x 1 |
| | Fan Motor Output | kW | 0.92 |
| | Airflow Rate | CFM | 6,000 |
| | External Static Pressure | In. WG | Selectable; 0.00, 0.12, 0.24, 0.32, In. WG; factory set to 0 In. WG |
| Compressor Operating Range | | | 21.0% to 100.0% |
| Compressor | Type x Quantity | | Inverter scroll hermetic compressor x 1 |
| Refrigerant | Type x Original Charge | | R410A x 14.0 lbs + 5.0 oz [6.5 kg] |
| Protection Devices | High Pressure Protection | | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |
| | Inverter Circuit (Comp./Fan) | | Over-current protection |
| AHRI Ratings (Ducted/Non-ducted) | EER | | 10.9/12.0 |
| | IEER | | 21.6/26.9 |
| | COP | | 4.03/4.39 |

NOTES:
Nominal cooling conditions (Test conditions are based on AHRI 1230-2023)
Indoor: 80°FD.B./67°FW.B. (26.7°CD.B./19.4°CW.B.), Outdoor: 95°FD.B. (35°CD.B.)
Nominal heating conditions (Test conditions are based on AHRI 1230-2023)
Indoor: 70°FD.B. (21.1°CD.B.), Outdoor: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

[1]Harsh weather environments may demand performance enhancing equipment. Ask your Mitsubishi Electric representative for more details about your region
[2]For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal
[3]When applying product below -4°F, consult your design engineer for cold climate application best practices, including the use of a backup source for heating
[4]Unit will continue to operate in extended operating range, but capacity is not guaranteed

Specifications are subject to change without notice.

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# OUTDOOR UNIT: PUHY-P72YNU-A(-BS) – DIMENSIONS

PUHY-P72YNU-A(-BS)

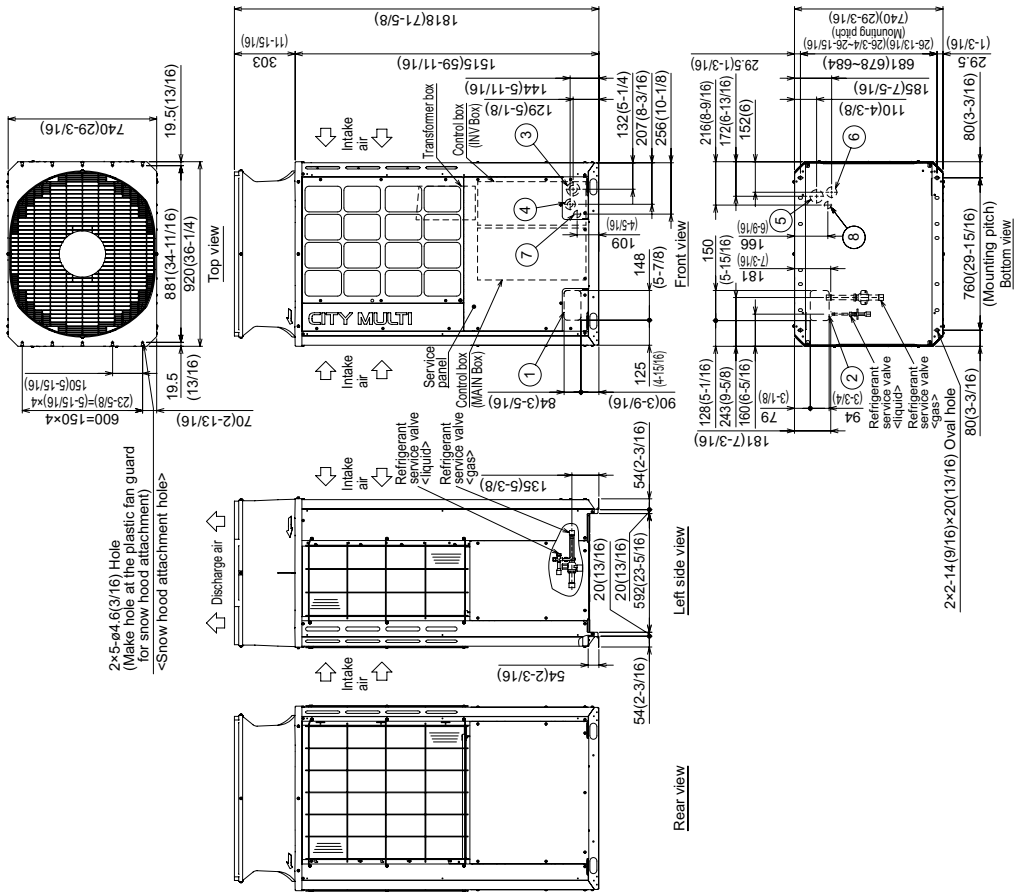
Unit: mm (in.)

Note 1. 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).

Connecting pipe specifications

| Model | Diameter | | | |
|---|---|---|---|---|
| | Refrigerant pipe | | Service valve | |
| | Liquid | Gas | Liquid | Gas |
| P72 | ø9.52(3/8)Brazed | ø22.2(7/8) Brazed | ø9.52(3/8) | ø22.2(7/8) |

| NO. | Usage | | Specifications |
|---|---|---|---|
| ① | For pipes | Front through hole | 148(5-7/8) × 84(3-5/16) Knockout hole |
| ② | | Bottom through hole | 150(5-15/16) × 94(3-3/4) Knockout hole |
| ③ | For wires | Front through hole | ø62.7(2-1/2) or ø34.5(1-3/8) Knockout hole |
| ④ | | Front through hole | ø43.7(1-3/4) or ø22.2(7/8) Knockout hole |
| ⑤ | | Bottom through hole | ø65(2-9/16) Knockout hole |
| ⑥ | | Bottom through hole | ø52(2-1/16) Knockout hole |
| ⑦ | For transmission cables | Front through hole | ø34(1-3/8) Knockout hole |
| ⑧ | | Bottom through hole | ø34(1-3/8) Knockout hole |




NOTES:
SEACOAST PROTECTION
Anti-corrosion Protection: A coating treatment is applied to condenser coil for protection from air contaminants.
Standard: Salt Spray Test Method - no unusual rust development to 480 hours.
Sea Coast (BS): Salt Spray Test Method (JRA 9002) - no unusual rust development to 960 hours.


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