# Model: 6-TON PURY-P72YKMU-U (-BS)



| Job Name: | |
|---|---|
| System Reference: | Date: |

## OUTDOOR VRF HEAT PUMP WITH HEAT RECOVERY SYSTEM FEATURES

- Assembled in USA
- INVERTER-driven compressor
- Air-source, simultaneous cooling and heating
- Long line lengths - for details see Engineering Manual
- Connects to CITY MULTI® indoor units
- Controlled via CITY MULTI® Controls Network

## UNIT OPTION

□ Standard Model……PURY-P72YKMU-U
□ Seacoast (BS) Model……PURY-P72YKMU-U-BS

## OPTIONAL PARTS

□ Joint Kit……for details see Pipe Accesories Submittal
■ BC Controller (required)……for details see BC Controller Submittals
□ Low Ambient Kit ……for details see Low Ambient Kit Submittal
□ Snow/Hail Guards Kit……for details see Snow/Hail Guards Kit Submittal

| Specifications | | Model Name |
|---|---|---|
| Unit Type | | PURY-P72YKMU-U (-BS) |
| Nominal Cooling Capacity (460V) | Btu/h | 72,000 |
| Nominal Heating Capacity (460V) | Btu/h | 80,000 |
| Operating Temperature Range *1 | Cooling (Outdoor) *2 | 23~115° F (-5~46° C) DB |
| | Heating (Outdoor) | -13~60° F (-25~15.5° C) WB |
| External Dimensions (H x W x D) | In. (mm) | 64-31/32 x 48-1/16 x 29-5/32 (1,650 x 1,220 x 740) |
| Net Weight | Lbs. (kg) | 534 (242) |
| External Finish | | Pre-coated galvanized steel sheet |
| Electrical Power Requirements | Voltage, Phase, Hertz | 460V, 3-Phase, 60Hz |
| Minimum Circuit Ampacity (MCA) | A | 11 |
| Recommended Fuse/Breaker Size | A | 15 |
| Maximum Fuse Size (MOCP) | A | 15 |
| Piping Diameter (Brazed) (In. / mm) | Liquid (High Pressure) | 5/8 (15.88) Brazed |
| | Gas (Low Pressure) | 3/4 (19.05) Brazed |
| Max. Total Refrigerant Line Length | Ft. | 1,804 |
| Max. Refrigerant Line Length (Between ODU & IDU) | Ft. | 541 |
| Max. Control Wiring Length | Ft. | 1,650 |
| Indoor Unit | Total Capacity | 50~150% of outdoor unit capacity |
| | Model / Quantity | P06~P96/1~18 |
| Sound Pressure Levels | dB(A) | 58 |
| *Fan* | | |
| Type x Quantity | | Propeller fan x 1 |
| Airflow Rate | CFM | 6,200 |
| External Static Pressure | In. WG | Selectable; 0, 0.12 or 0.24"WG; factory set to 0"W.G. |
| Compressor Operating Range | | 17% to 100% |
| Compressor Type x Quantity | | Inverter scroll hermetic compressor |
| Refrigerant | | R410A; 26 lbs. + 1 oz. (11.8 kg) |
| Protection Devices | High Pressure | High pressure sensor, High pressure switch at 4.15 MPa (601 psi) |
| | Inverter Circuit (Comp. / Fan) | Over-current protection |
| | Fan Motor | Thermal switch |
| AHRI Ratings (Ducted/Non-Ducted) | EER | 13.9 / 15.5 |
| | IEER | 21.1 / 22.1 |
| | COP | 3.81 / 3.72 |
| | SCHE | 23.60 / 24.48 |
| **Blue Fin Anti-corrosion Protection:** Cellulose- and polyurethane-resin coating treatment applied to condenser coil that protects it from air contaminants<br>**Standard:** ≥1µm thick; Salt Spray Test Method - no unusual rust development to 480 hours.<br>**Seacoast (BS):** ≥1µm thick; Salt Spray Test Method - no unusual rust development to 960 hours. | | |

**NOTES:**
*1. 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.
*2. For details on extended cooling operation range down to -10° F DB, see Low Ambient Kit Submittal.

Specifications are subject to change without notice.

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# Model: PURY-P72YKMU-U (-BS) – DIMENSIONS

Unit : mm(in.)

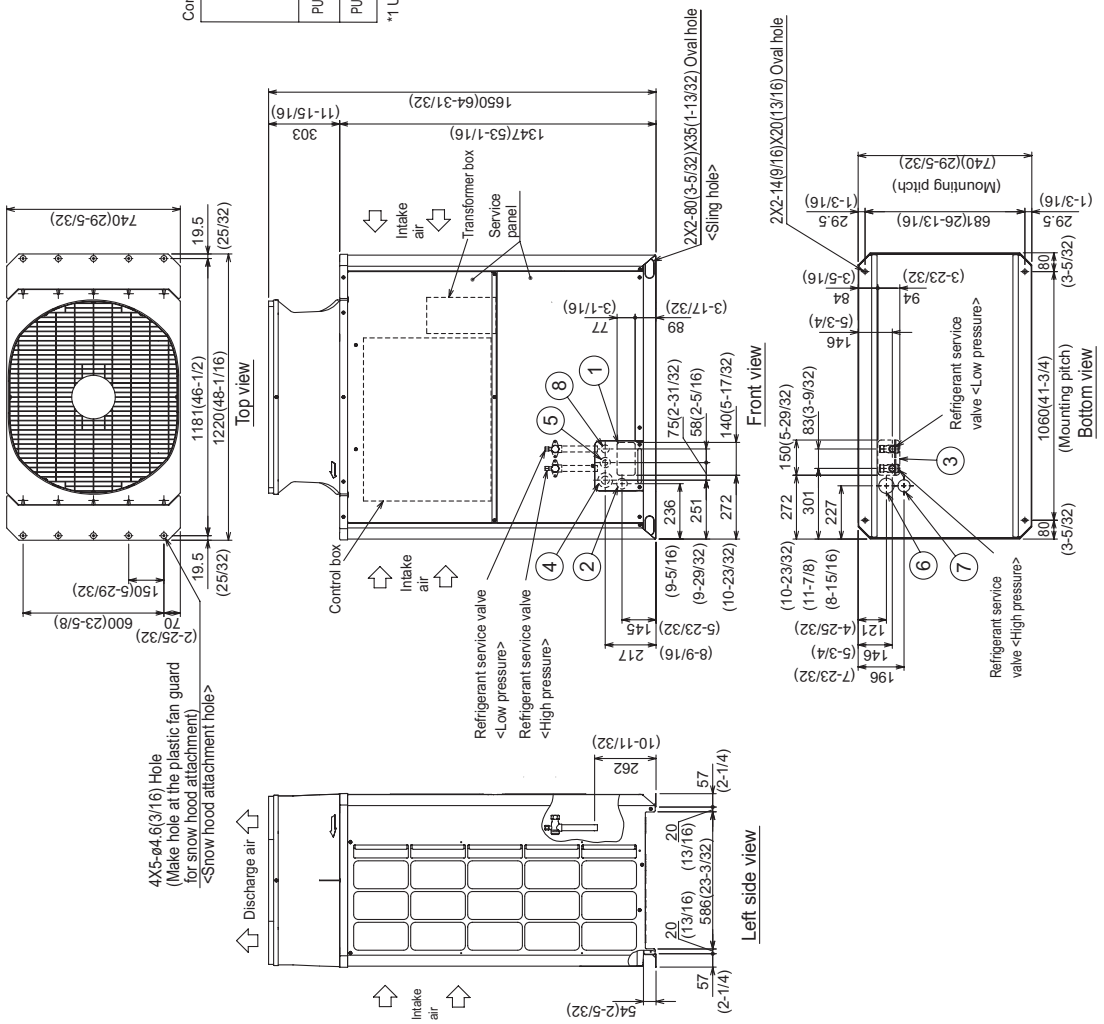
Note 1.Please refer to the engineering manual for information regarding necessary spacing around the unit and foundation work. Outdoor unit must be mounted at least 12" off the ground or 12" above the highest average snow depth, whichever is greater.
2.At brazing of pipes,wrap the refrigerant service 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 | |
| | High pressure | Low pressure | High pressure | Low pressure |
| PURY-P72YKMU | ø15.88 Brazed (5/8) *1 | ø19.05 Brazed (3/4) *1 | ø25.4 (1) | ø25.4 (1) |
| PURY-P96YKMU | ø19.05 Brazed (3/4) *1 | ø22.2 Brazed (7/8) *1 | ø25.4 (1) | ø25.4 (1) |

*1 Use the pipe joint(field supply) and connect to the refrigerant service valve piping.

| NO. | Usage | | Specifications |
|---|---|---|---|
| ① | For pipes | Front through hole | 140 × 77 Knockout hole (5-17/32)(3-1/16) |
| ② | | Front through hole (Uses when twinning kit (optional parts) is mounted.) | ø45 Knockout hole (1-25/32) |
| ③ | | Bottom through hole | 150 × 94 Knockout hole (5-29/32) (3-23/32) |
| ④ | For wires | Front through hole | ø62.7 or ø34.5 Knockout hole (2-15/32) (1-3/8) |
| ⑤ | | Front through hole | ø43.7 or ø22.2 Knockout hole (1-3/4) (7/8) |
| ⑥ | | Bottom through hole | ø65 Knockout hole (2-9/16) |
| ⑦ | | Bottom through hole | ø52 Knockout hole (2-1/16) |
| ⑧ | For transmission cables | Front through hole | ø34 Knockout hole (1-11/32) |





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FORM# PURY-P72YKMU-U (-BS) - 201605


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