# Submittal Data Sheet

## Condenser Model#: AC-I-48-INV-HP-PKG

| 48K R32 ROOFTOP PACKAGE UNIT DC INVERTER HEAT PUMP SYSTEM | |
|---|---|
| **Location:** | **Approval:** |
| **Engineer:** | **Date:** |
| **Submitted to:** | **Construction:** |
| **Submitted by:** | **Unit #:** |
| **Reference:** | **Drawing #:** |

| UNIT SPECIFICATIONS | | |
|---|---|---|
| **Compressor Type** | | DC Inverter Twin-rotary |
| **Compressor Model** | | KTQ420D41SN5A1 |
| **Refrigerant Type** | | R32 |
| **Refrigerant Charge (oz/kg)** | | 4.8 (169.3) |
| **Refrigerant Oil** | | VG74 |
| **Refrigerant Oil Charge (mL)** | | 1000 |
| **Outdoor Fan Motor Model** | | DQ-DRN-310-200-8-A |
| **Outdoor Airflow (CFM)** | | 4300 |
| **Indoor Fan Motor Model** | | DQ-ZKSD-560-10-5 |
| **Indoor Airflow (CFM)** | | 1680 |
| **Noise level (dBA)** | | 74 |
| **Dimension (W×D×H)** | **inch** | 51.57 x 44.80 x 51.42 |
| | **mm** | 1310 x 1138 x 1306 |
| **Package (W×D×H)** | **inch** | 52.28 x 45.43 x 51.65 |
| | **mm** | 1328 x 1154 x 1312 |
| **Net/Gross Weight** | **lbs** | 551 / 569 |
| | **kg** | 250 / 258 |

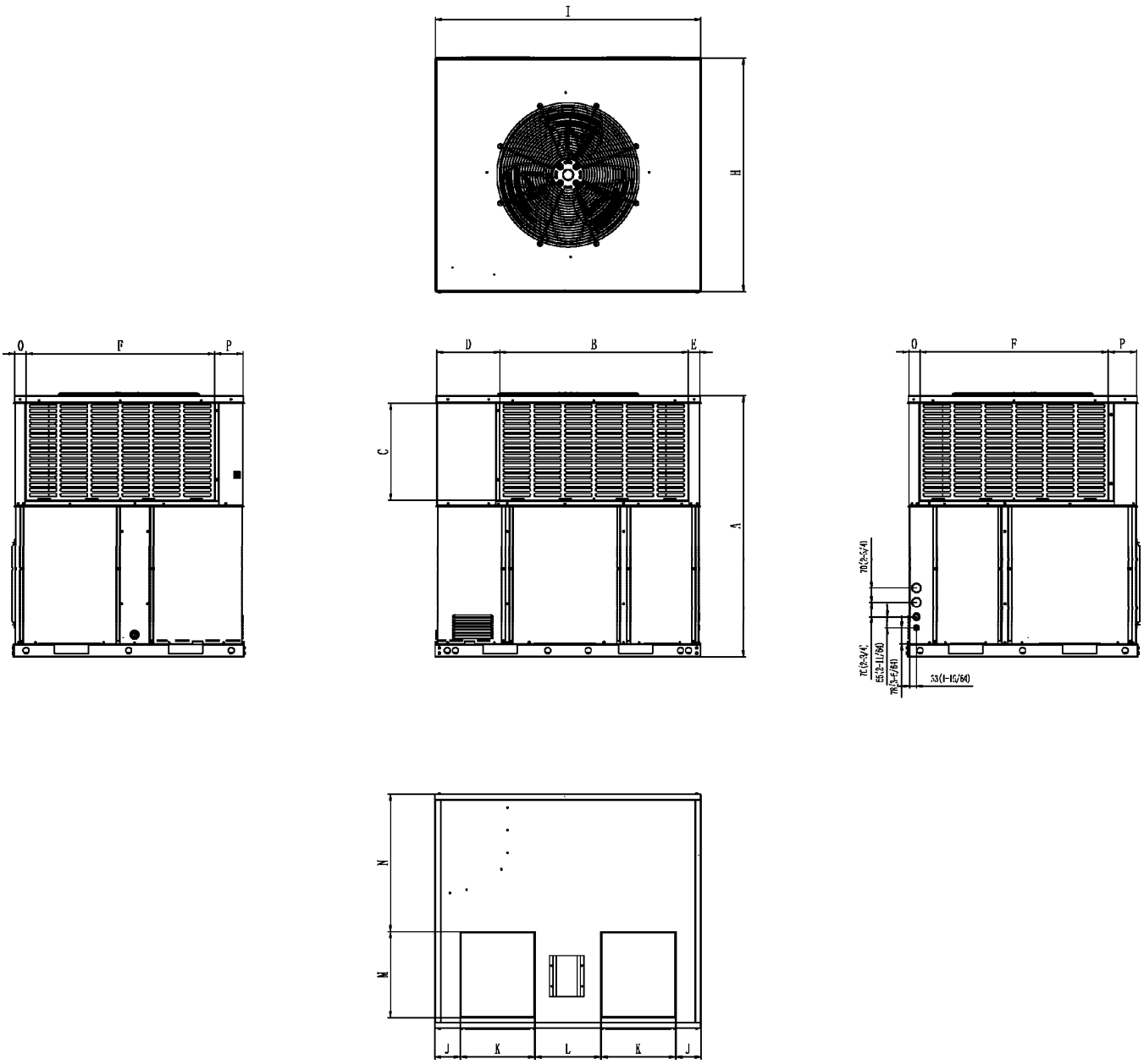
| EFFICIENCY RATINGS | | | |
|---|---|---|---|
| **Cooling** | | **Heating** | |
| **SEER2** | 19.0 | **HSPF2-4** | 9.0 |
| **EER2** | 11.2 | **COP** | 12.50 |

| ELECTRICAL SPECIFICATIONS | |
|---|---|
| **Power Supply** | 208/230V, 60Hz, 1Ph |
| **MCA** | 38.95 |
| **MAX. FUSE (MOP)** | 60 |
| **Communication Wiring** | AWG 25×3 Shielded |
| **Compressor RLA** | 23 |
| **Outdoor Fan Motor W** | 200 |
| **Outdoor Fan Motor RLA** | 2.1 |
| **Indoor Fan Motor RLA** | 5.4 |
| **Indoor Fan Motor W** | 560 |
| **System Power Input @ Cooling (W)** | 4286 |
| **System Power Input @ Heating (W)** | 3840 |
| **MCA**: Min. circuit amps (A) | **MOP:** Max. Overcurrent Protection (A) |
| **RLA**: Rated load amps (A) | **W:** Fan motor rated output (W) |

| COOLING PERFORMANCE | |
|---|---|
| **Cooling** (Btu/hr) | |
| **Rated Capacity** | 48000 |
| **Standard Operating Range (°F/°C)** | 23°F ~ 125°F (-5°C ~ 52°C) |
| **Rated Cooling Conditions:** | Indoor: 80°F DB/67°F WB<br>Outdoor: 95°F DB/75°F WB |

| HEATING PERFORMANCE | |
|---|---|
| **Heating** (Btu/hr) | |
| **Rated Capacity** | 48000 |
| **1. @ 17°F Rated** | 48000 |
| **2. @ 5°F Rated: Capacity / COP** | 44800 (1.8) |
| **Standard Operating Range (°F/°C)** | -4°F ~ 86°F (-20°C ~ 30°C) |
| **Rated Heating Conditions:** | Indoor: 70°F DB/60°F WB<br>Outdoor: 47°F DB/43°F WB |
| **1. Rated Heating Conditions:** | Indoor: 70°F DB/60°F WB<br>Outdoor: 17°F DB/15°F WB |
| **2. Rated Heating Conditions:** | Indoor: 70°F DB/60°F WB<br>Outdoor: 5°F DB/5°F WB |

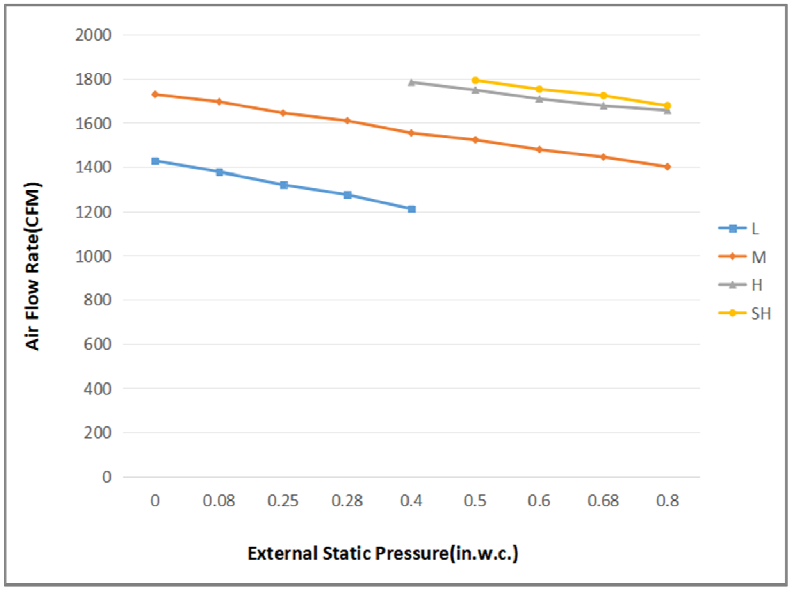
## UNIT DIMENSIONS




| Dimensions \ Model | | 24K/36K | | 48K/60K | |
|---|---|---|---|---|---|
| | | inch | mm | inch | mm |
| A | Model Height | 46-47/64 | 1187 | 50-3/64 | 1271 |
| B | Outdoor Coil Return Air Opening Width | 35-3/4 | 906 | 36-17/32 | 928 |
| C | Outdoor Coil Return Air Opening Height | 15-7/16 | 392 | 15-7/16 | 392 |
| D | Outdoor Coil Return Air Opening Side Clearance 1 | 12-9/16 | 319 | 12-9/16 | 319 |
| E | Outdoor Coil Return Air Opening Side Clearance 2 | 2-31/64 | 63 | 2-51/64 | 71 |
| F | Outdoor Coil Side Return Air Opening Width | 24-23/32 | 628 | 36-17/32 | 928 |
| H | Model Depth | 35 3/64 | 890 | 44 51/64 | 1138 |
| I | Model Width | 50-45/64 | 1288 | 51-37/64 | 1310 |
| J | Indoor Coil Return Air Opening Side Clearance | 3-5/64 | 78 | 4-7/8 | 124 |
| K | Indoor Coil Return? Air Opening Width | 9-49/64 | 248 | 14-3/8 | 365 |
| L | Indoor Coil Return Air Opening Both Clearance | 21-13/16 | 554 | 12-23/32 | 323 |
| M | Indoor Coil Return Air Opening Height | 16-27/64 | 417 | 16-27/64 | 417 |
| N | Indoor Coil Return Air Opening Top Clearance | 16-11/32 | 415 | 26-11/32 | 669 |
| O | Outdoor Coil Return Air Opening Back Clearance | 2-33/64 | 64 | 2-31/64 | 63 |
| P | Outdoor Coil Return Air Opening Front Clearance | 7-51/64 | 198 | 5-25/32 | 147 |

## UNIT INSTALLATION INSTRUCTIONS & CLEARANCE REQUIREMENTS


## INDOOR FAN PERFORMANCE



## FEATURES

- DC inverter compressor
- R32 Refrigerant, environment friendly
- Refrigerant cooling PCB, high reliablity
- Horizontal or downflow application
- Static pressure up to 0.80 In.W.G
- Optional Auxiliary heat kit up to 20kW
- Easy Maintenance
- Multiple control options available:
  - Wired controller
  - Wired controller with built-in WiFi
  - Third-Party 24V Thermostat
- Crankcase heater equipped as standard