

**Air Handler Heat Pump System**

|               |               |
|---------------|---------------|
| Location:     | Approval:     |
| Engineer:     | Date:         |
| Submitted to: | Construction: |
| Submitted by: | Unit #:       |
| Reference:    | Drawing #:    |


**SPECIFICATION**

|                                    |                                                     |
|------------------------------------|-----------------------------------------------------|
| <b>Compressor Type</b>             | DC Inverter Rotary                                  |
| <b>Compressor Model</b>            | KTN210D60UMT3                                       |
| <b>Refrigerant</b>                 | R32                                                 |
| <b>Refrigerant Charge(kg/oz)</b>   | 1.8(63.5)                                           |
| <b>Refrigerant Oil</b>             | VG74                                                |
| <b>Refrigerant Oil Charge(mL)</b>  | 630                                                 |
| <b>Outdoor Fan Motor Model</b>     | DQ-DRN-310-200-8-A                                  |
| <b>Outdoor Air Flow (CFM)</b>      | 3200.0                                              |
| <b>Indoor Fan Motor Model</b>      | YKS-150-6-4                                         |
| <b>Indoor Air Flow (CFM)</b>       | 760                                                 |
| <b>Noise level</b>                 | 73                                                  |
| <b>Dimension (W×D×H)</b>           | mm 1288×890×1190<br>inch 50-45/64×35-3/64×46-27/32  |
| <b>Package (W×D×H)</b>             | mm 1306×906×1228<br>inch 51-27/64×35-43/64×48-11/32 |
| <b>Net/Gross Weight</b>            | lbs 390/404                                         |
| <b>Loading quantity 40'HQ(set)</b> | 44                                                  |

**EFFICIENCY**

| Cooling      |      | Heating      |       |
|--------------|------|--------------|-------|
| <b>SEER2</b> | 15.2 | <b>HSPF2</b> | 7.2   |
| <b>EER2</b>  | 9.9  | <b>COP</b>   | 10.70 |

**PERFORMANCE of Cooling**
**Cooling (Btu/hr)**

|                                     |       |
|-------------------------------------|-------|
| <b>Rated Capacity</b>               | 24000 |
| <b>Standard Operating Range(°F)</b> | 5~125 |
| Rated Cooling Conditions:           |       |
| Indoor: 80°F DB/67°F WB             |       |
| Outdoor: 95°F DB/75°F WB            |       |

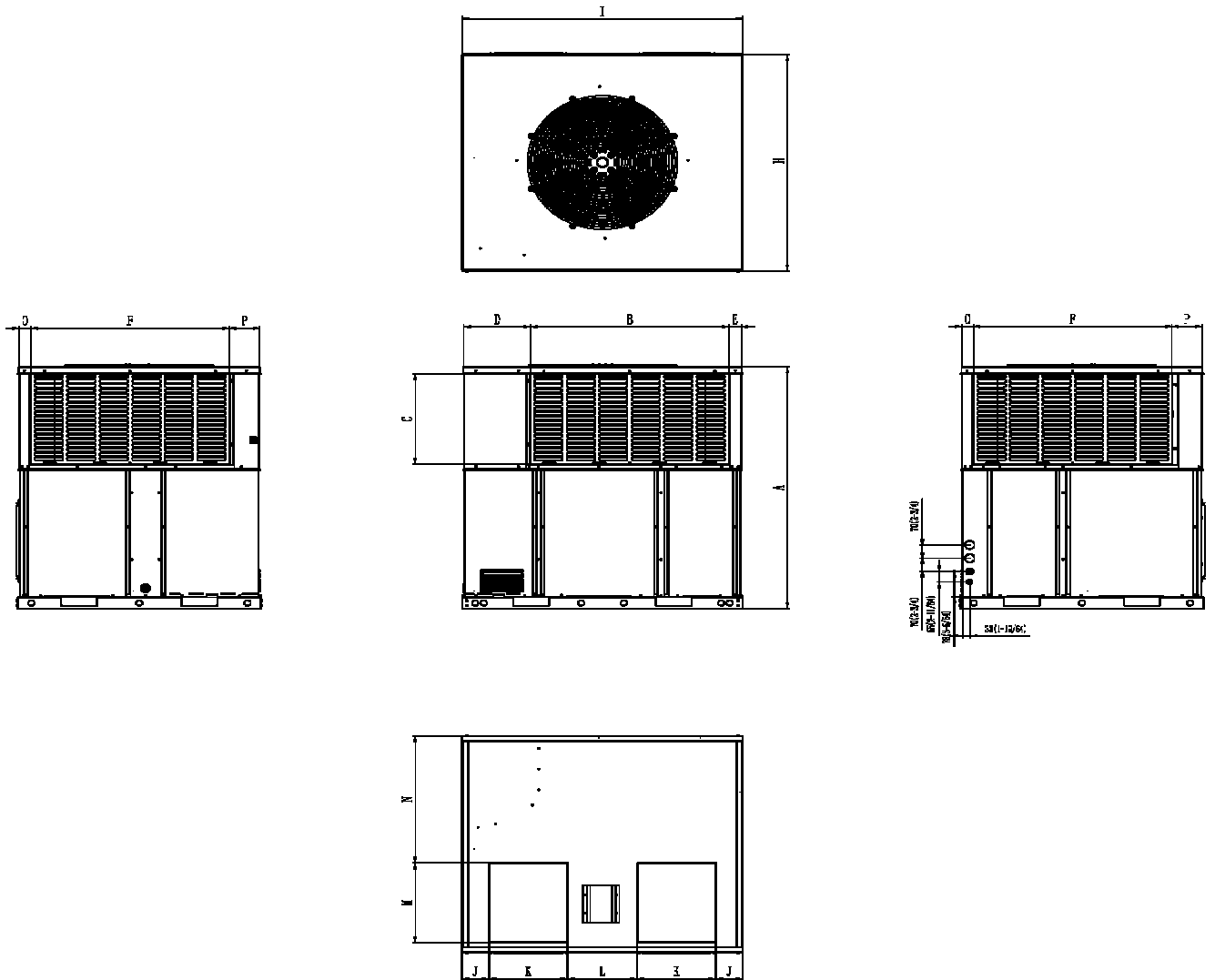
**Heating (Btu/hr)**

|                                       |             |
|---------------------------------------|-------------|
| <b>Rated Capacity</b>                 | 24000       |
| <b>1. @ 17°F Rated</b>                | 19000       |
| <b>2. @ 5°F Rated: Capacity / COP</b> | 18500(1.64) |
| <b>Standard Operating Range(°F)</b>   | -4~86       |
| Rated Heating Conditions:             |             |
| Indoor: 70°F DB/60°F WB               |             |
| Outdoor: 47°F DB/43°F WB              |             |
| 1. Rated Heating Conditions:          |             |
| Indoor: 70°F DB/60°F WB               |             |
| Outdoor: 17°F DB/15°F WB              |             |
| 2. Rated Heating Conditions:          |             |
| Indoor: 70°F DB/60°F WB               |             |
| Outdoor: 5°F DB/5°F WB                |             |

**ELECTRICAL**

|                                         |                   |
|-----------------------------------------|-------------------|
| <b>Power Supply</b>                     | 208/230V,60Hz,1Ph |
| <b>MCA</b>                              | 23.88             |
| <b>MAX.FUSE</b>                         | 35                |
| <b>Communication Wiring</b>             | 12AWG*3           |
| <b>Compressor RLA</b>                   | 16                |
| <b>Outdoor Fan Motor W</b>              | 2.1               |
| <b>Outdoor Fan Motor RLA</b>            | 16                |
| <b>Indoor Fan Motor RLA</b>             | 1.78              |
| <b>Indoor Fan Motor W</b>               | 150               |
| <b>System Power Input @ Cooling (W)</b> | 2425              |
| <b>System Power Input @ Heating (W)</b> | 2245              |
| <b>MCA: Min. circuit amps (A)</b>       |                   |
| <b>RLA: Rated load amps (A)</b>         |                   |
| <b>W: Fan motor rated output (W)</b>    |                   |

# Indoor Unit Dimension

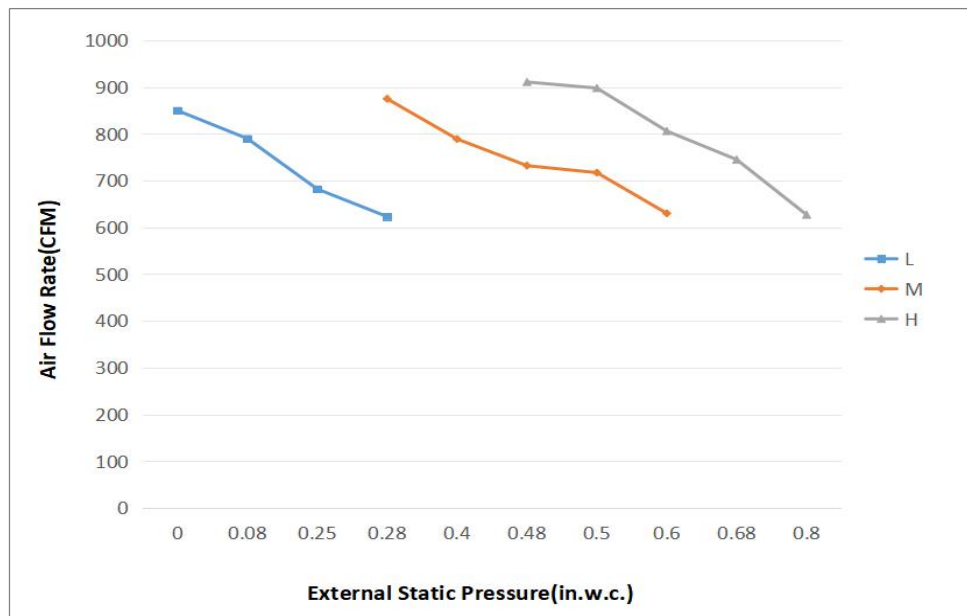


| Dimensions |                                                  | Model |  | 24K/36K  |      | 48K/60K  |      |
|------------|--------------------------------------------------|-------|--|----------|------|----------|------|
|            |                                                  |       |  | 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  |
| II         | 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  |

## Installation Instruction For Outdoor Unit



## Fan Performance For Indoor Unit



#### Features

- DC inverter compressor
- R32 Refrigerant, environment friendly
- Refrigerant cooling PCB, high reliability
- Horizontal or downflow application
- Static pressure up to 0.80 In.W.G
- Optional Auxiliary heat kit up to 15kW
- Easy Maintenance
- Multiple control options available:
  - Wired controller
  - Wired controller with built-in WiFi
  - Third-Party 24V Thermostat
- Crankcase heater equipped as standard

