

**Ceiling&Floor Heat Pump System**

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



**INDOOR SPEINDOOR SPECIFICATIONCIFICATION**

|  |  |                       |
|--|--|-----------------------|
| <b>Indoor Air Flow (Turbo/H/M/L/Si) (CFM)</b>    | 1365.6 / 1236.1 / 1118.3 / 882.9 / 777.0 |                       |
| <b>Indoor Noise Level (Turbo/H/M/L/Si) (dBA)</b> | N/A/54.5/49.0/42.0/39.0                  |                       |
| <b>Dimension (W×D×H)</b>                         | <b>inch</b>                              | 64.96 x 26.57 x 9.25  |
|  | <b>mm</b>                                | 1650.0×675.0×235.0    |
| <b>Package (W×D×H)</b>                           | <b>inch</b>                              | 67.91 x 29.72 x 12.52 |
|  | <b>mm</b>                                | 1725×755×318          |
| <b>Net/Gross Weight</b>                          | <b>lbs</b>                               | 95.24/111.33          |
|  | <b>kg</b>                                | 43.2/50.5             |

**OUTDOOR SPECIFICATION**

|                                     |               |                       |
|-------------------------------------|---------------|-----------------------|
| <b>Compressor Type</b>              | TWIN-ROTARY   |                       |
| <b>Compressor Model</b>             | EKPQ440D1UMUB |                       |
| <b>Refrigerant</b>                  | R454B         |                       |
| <b>Refrigerant Oil Charge(mL)</b>   | 1300          |                       |
| <b>Refrigerant Oil</b>              | VG75          |                       |
| <b>Outdoor Air Flow (Max) (CFM)</b> | 4237.9        |                       |
| <b>Outdoor Noise Level (dBA)</b>    | 64.5          |                       |
| <b>Dimension (W×D×H)</b>            | <b>inch</b>   | 37.48 x 16.34 x 52.48 |
|                                     | <b>mm</b>     | 952.0×415.0×1333.0    |
| <b>Package (W×D×H)</b>              | <b>inch</b>   | 43.11 x 19.49 x 58.27 |
|                                     | <b>mm</b>     | 1095×495×1480         |
| <b>Net/Gross Weight</b>             | <b>lbs</b>    | 230.38/261.69         |
|                                     | <b>kg</b>     | 104.5/118.7           |

**EFFICIENCY**

| Cooling      |     | Heating        |      |
|--------------|-----|----------------|------|
| <b>SEER2</b> | 18  | <b>HSPF2-4</b> | 10.7 |
| <b>EER2</b>  | 9.0 | <b>COP</b>     | 3.02 |

**PERFORMANCE of Cooling**

| Cooling (Btu/hr)                       |   |
|--|---|
| <b>Rated Capacity</b>                  | 54000   |
| <b>Min/Max Capacity</b>                | 20000~54500   |
| <b>Moisture Removal(L/h)</b>           | 7.16  |
| <b>Standard Operating Range(°F/°C)</b> | -22~-122(-30~-50)                                   |
| Conditions:                            | Indoor: 80°F DB/67°F WB<br>Outdoor: 95°F DB/75°F WB |

**PERFORMANCE of Heating**

| Heating (Btu/hr)                       |   |
|--|---|
| <b>1. @ 47°F Rated</b>                 | 60000   |
| <b>1. @ 47°F Min/Max Capacity</b>      | 21700~65500   |
| <b>2. @ 17°F Rated</b>                 | 41000   |
| <b>3. @ 5°F Rated: Capacity / COP</b>  | 54000/1.91  |
| <b>3. @ 5°F Max: Capacity</b>          | 54000   |
| <b>Standard Operating Range(°F/°C)</b> | -22~-75(-30~-24)                                    |
| 1. Conditions:                         | Indoor: 70°F DB/60°F WB<br>Outdoor: 47°F DB/43°F WB |
| 2. Conditions:                         | Indoor: 70°F DB/60°F WB<br>Outdoor: 17°F DB/15°F WB |
| 3. Conditions:                         | Indoor: 70°F DB/60°F WB<br>Outdoor: 5°F DB/5°F WB   |

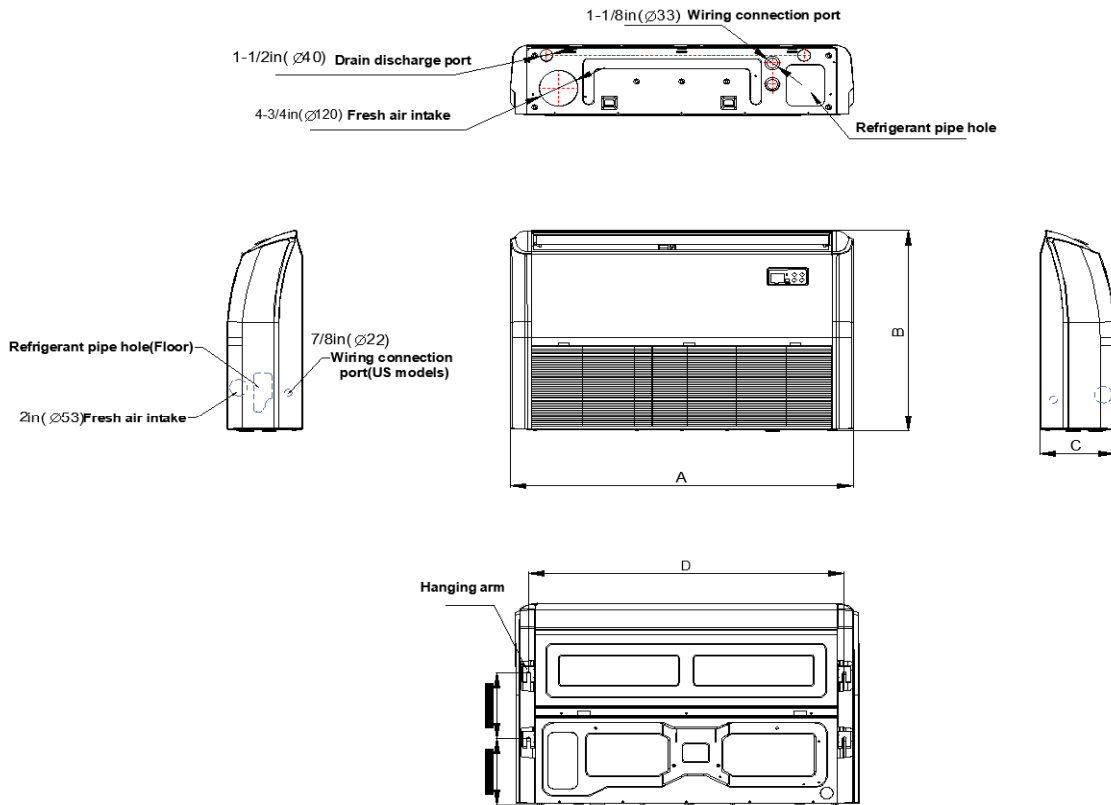
**ELECTRICAL**

|   |   |
|---|---|
| <b>Power Supply</b>                     | 208/230V,60Hz,1Ph                             |
| <b>System MCA</b>                       | 44.00   |
| <b>Connection Wiring</b>                | 14#x3   |
| <b>System MOCP</b>                      | 45  |
| <b>Compressor RLA</b>                   | 26.8  |
| <b>Outdoor Fan Motor RLA</b>            | 2.2   |
| <b>Outdoor Fan Motor W</b>              | 85  |
| <b>Indoor Fan Motor RLA</b>             | 2.0   |
| <b>Indoor Fan Motor W</b>               | 160   |
| <b>System Power Input @ Cooling (W)</b> | 6000(2000 ~ 5900)                             |
| <b>System Power Input @ Heating (W)</b> | 5823(1240 ~6000)                              |
| <b>MCA: Min. circuit amps (A)</b>       | <b>MOCP: Max. over current protection (A)</b> |
| <b>RLA: Rated load amps (A)</b>         | <b>W: Fan motor rated output (W)</b>          |

**PIPING**

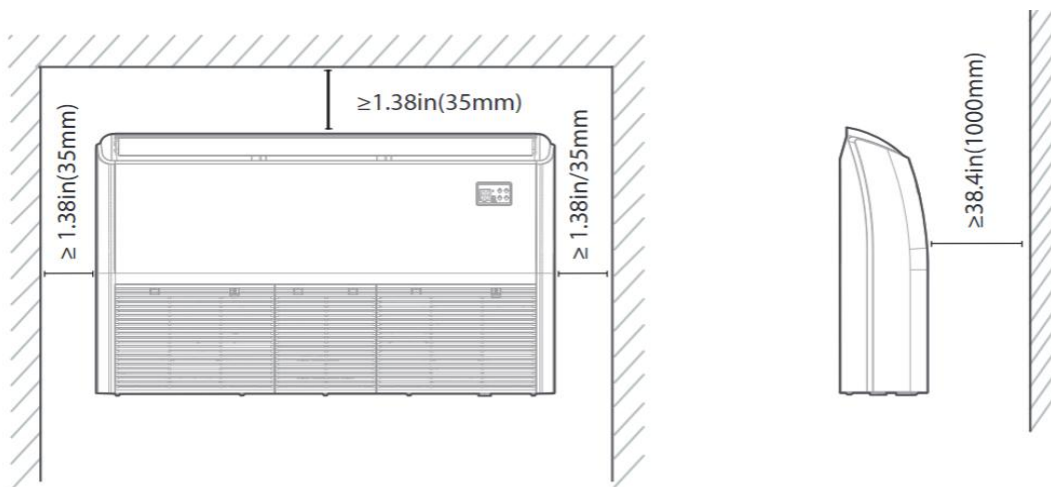
|  |                    |
|--|--------------------|
| <b>Throttle type(Indoor)</b>                           | N/A                |
| <b>Throttle type(Outdoor)</b>                          | EXV+Throttle valve |
| <b>Liquid Size</b>                                     | 9.52mm(3/8in)      |
| <b>Gas Size</b>  | 19mm(3/4in)        |
| <b>Max. Piping Length(ft/m)</b>                        | 246.00(75)         |
| <b>Max. Height Difference(ft/m)</b>                    | 98.40(30)          |
| <b>Max. Pre-charged Length(ft/m)</b>                   | 24.6(7.5)          |
| <b>Refrigerant Pre-charged Amount(oz/kg)</b>           | 151.68(4.30)       |
| <b>Additional Charge of Refrigerant((oz/ft)/(g/m))</b> | 0.32(30)           |
| <b>Connection Method</b>                               | Flared             |

## Indoor Unit Dimension

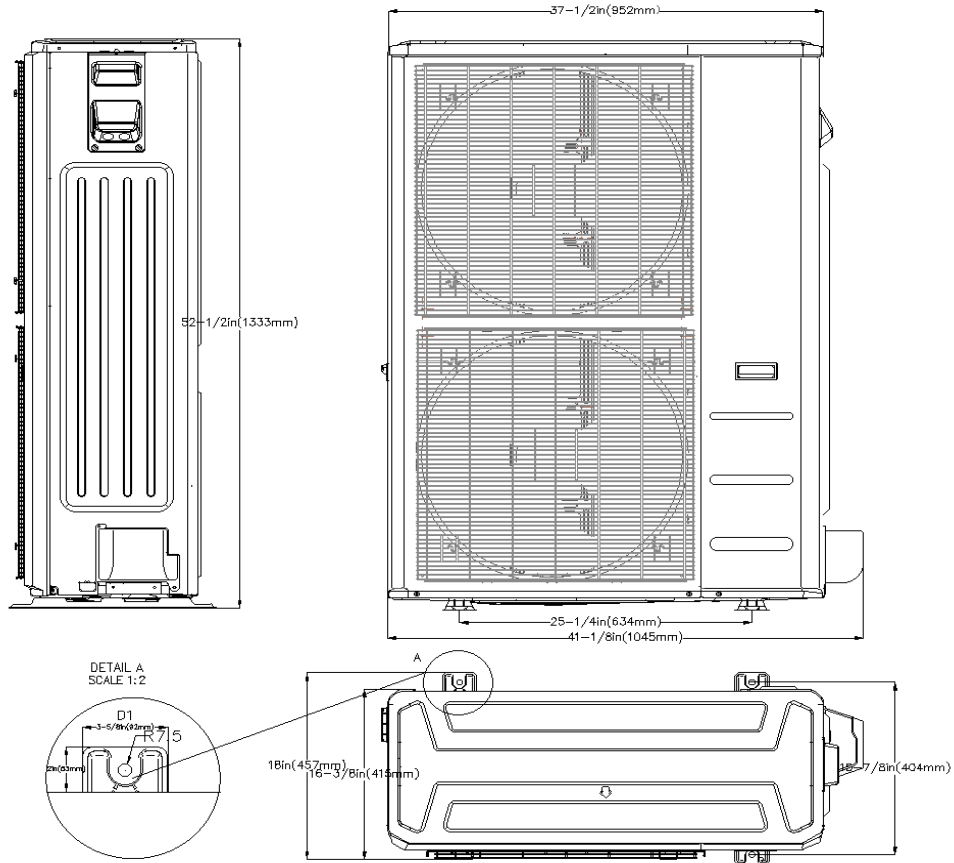


| Model       | A            | B               | C              | D                |
|-------------|--------------|-----------------|----------------|------------------|
| 18K/24K     | 42in(1068mm) | 26-1/2in(675mm) | 9-1/4in(235mm) | 38-3/4in(983mm)  |
| 36K/48K/60K | 65in(1650mm) | 26-1/2in(675mm) | 9-1/4in(235mm) | 61-5/8in(1565mm) |

## Installation Instruction



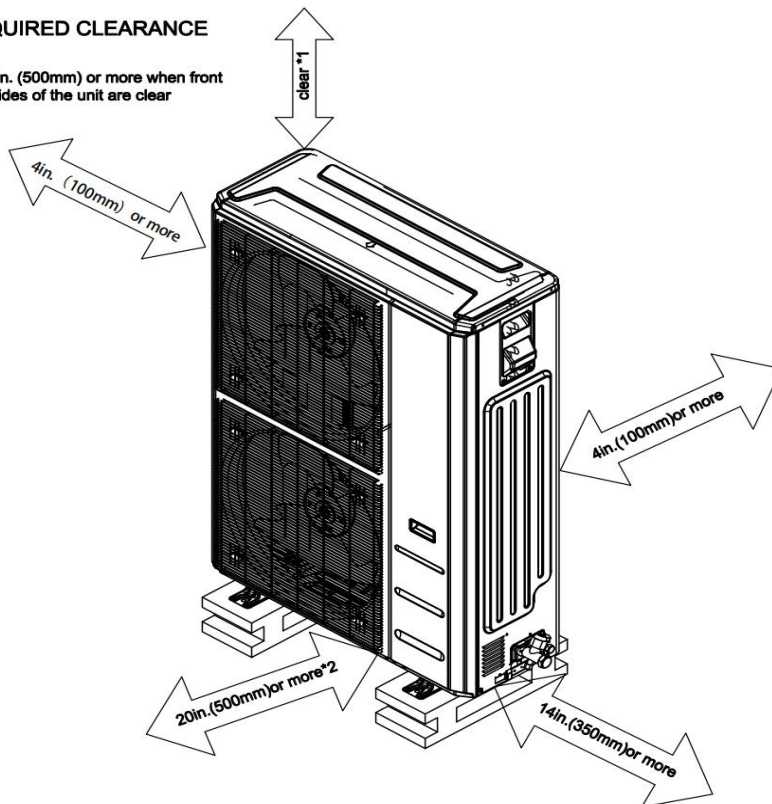
## Outdoor Unit Dimension



## Installation Instruction

### REQUIRED CLEARANCE

\*1 20in. (500mm) or more when front and sides of the unit are clear



\*2 When any 2 sides of left, right and rear of the unit are clear

## FEATURES

- 2 Style Installation
- 3D Airflow
- Refrigerant leakage detection sensor
- Humidity sensor
- “88” display tube
- 1~100% fan speed setting
- WiFi capability: through WiFi dongle or wired controller with built-in WiFi
- OTA(by using WiFi dongle)
- 2-pin connector(HA/HB) for programmable wired controller
- Multiple control options available:
  - Two way communication wired controller with built-in WiFi:AWC-8P-LC-WIFI
  - Infrared wired controller: AWC-4
  - Wireless remote controller
  - Third-Party 24V Thermostat

\*24V interface is required.