

**4-Way Cassette Heat Pump System**

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


**INDOOR SPEINDOOR SPECIFICATIONCIFICATION**

|                                           |                                          |
|-------------------------------------------|------------------------------------------|
| Indoor Air Flow (Turbo/H/M/L/Si) (CFM)    | 1236.1 / 1124.2 / 1018.3 / 800.5 / 688.7 |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) | N/A/52.0/49.5/41.5/38.00                 |
| Dimension (W×D×H)                         | inch 32.68 x 32.68 x 11.30               |
|                                           | mm 830.0×830.0×287.0                     |
| Package (W×D×H)                           | inch 35.83 x 35.83 x 12.99               |
|                                           | mm 910×910×330                           |
| Net/Gross Weight                          | lbs 64.59/76.06                          |
|                                           | kg 29.3/34.5                             |

**OUTDOOR SPECIFICATION**

|                              |                            |
|------------------------------|----------------------------|
| Compressor Type              | TWIN-ROTARY                |
| Compressor Model             | EKPQ420D1UMUA              |
| Refrigerant                  | R454B                      |
| Refrigerant Oil Charge(mL)   | 1460ml                     |
| Refrigerant Oil              | 3265                       |
| Outdoor Air Flow (Max) (CFM) | 4237.9                     |
| Outdoor Noise Level (dBA)    | 62.5                       |
| Dimension (W×D×H)            | inch 37.48 x 16.34 x 52.48 |
|                              | mm 952.0×415.0×1333.0      |
| Package (W×D×H)              | inch 43.11 x 19.49 x 57.48 |
|                              | mm 1095×495×1460           |
| Net/Gross Weight             | lbs 208.78/239.86          |
|                              | kg 94.7/108.8              |

**EFFICIENCY**

| Cooling |      | Heating |      |
|---------|------|---------|------|
| SEER2   | 18   | HSPF2-4 | 11.0 |
| EER2    | 10.0 | COP     | 3.09 |

**PERFORMANCE of Cooling**

| Cooling (Btu/hr)                |                                                     |
|---------------------------------|-----------------------------------------------------|
| Rated Capacity                  | 48000                                               |
| Min/Max Capacity                | 4900~52700                                          |
| Moisture Removal(L/h)           | 6.13                                                |
| Standard Operating Range(°F/°C) | -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)                |                                                     |
|---------------------------------|-----------------------------------------------------|
| 1. @ 47°F Rated                 | 53000                                               |
| 1. @ 47°F Min/Max Capacity      | 19000~57400                                         |
| 2. @ 17°F Rated                 | 44000                                               |
| 3. @ 5°F Rated: Capacity / COP  | 47500/1.96                                          |
| 3. @ 5°F Max: Capacity          | 47500                                               |
| Standard Operating Range(°F/°C) | -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   |

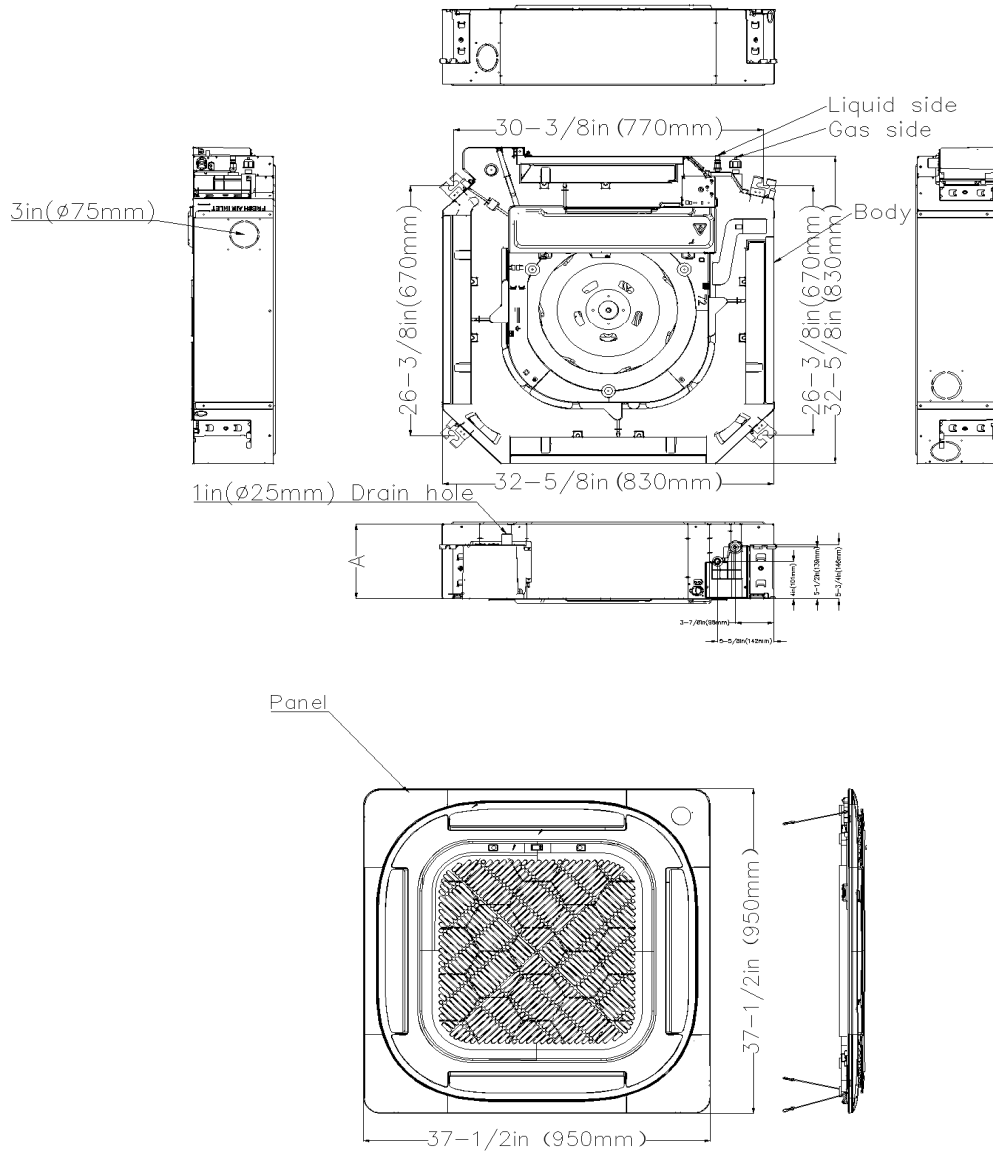
**ELECTRICAL**

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Power Supply                     | 208/230V,60Hz,1Ph                      |
| System MCA                       | 44.00                                  |
| Connection Wiring                | 14#x3                                  |
| System MOCP                      | 45                                     |
| Compressor RLA                   | 27.0                                   |
| Outdoor Fan Motor RLA            | 1.2                                    |
| Outdoor Fan Motor W              | 85                                     |
| Indoor Fan Motor RLA             | 1.0                                    |
| Indoor Fan Motor W               | 125                                    |
| System Power Input @ Cooling (W) | 4800(710 ~ 5750)                       |
| System Power Input @ Heating (W) | 5027(1135 ~ 5660)                      |
| MCA: Min. circuit amps (A)       | MOCP: Max. over current protection (A) |
| RLA: Rated load amps (A)         | W: Fan motor rated output (W)          |

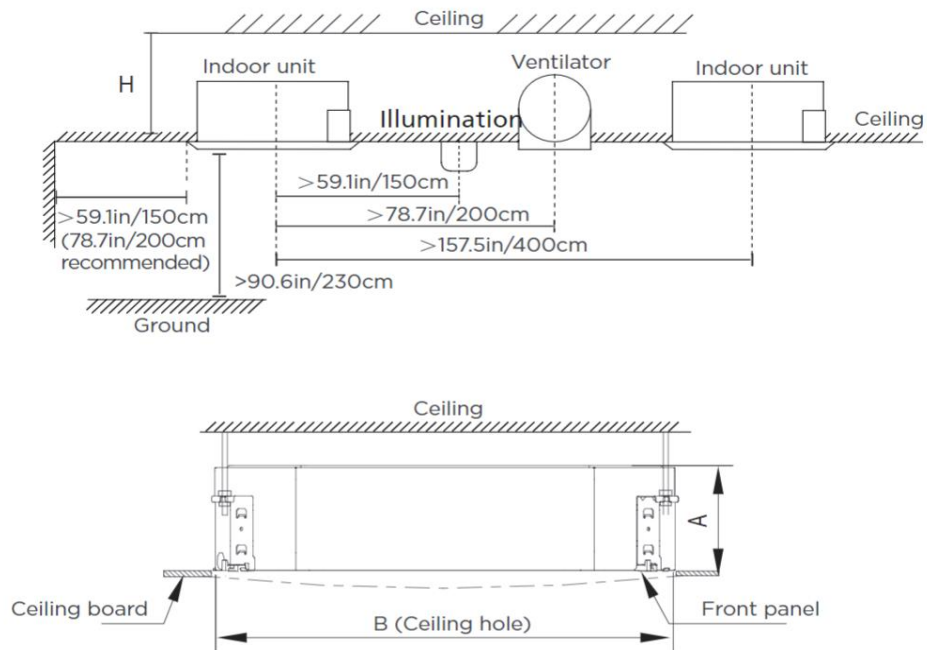
**PIPING**

|                                                 |                    |
|-------------------------------------------------|--------------------|
| Throttle type(Indoor)                           | N/A                |
| Throttle type(Outdoor)                          | EXV+Throttle valve |
| Liquid Size                                     | 9.52mm(3/8in)      |
| Gas Size                                        | 19mm(3/4in)        |
| Max. Piping Length(ft/m)                        | 246.00(75)         |
| Max. Height Difference(ft/m)                    | 98.40(30)          |
| Max. Pre-charged Length(ft/m)                   | 24.6(7.5)          |
| Refrigerant Pre-charged Amount(oz/kg)           | 126.99(3.60)       |
| Additional Charge of Refrigerant((oz/ft)/(g/m)) | 0.32(30)           |
| Connection Method                               | Flared             |

## Indoor Unit Dimension



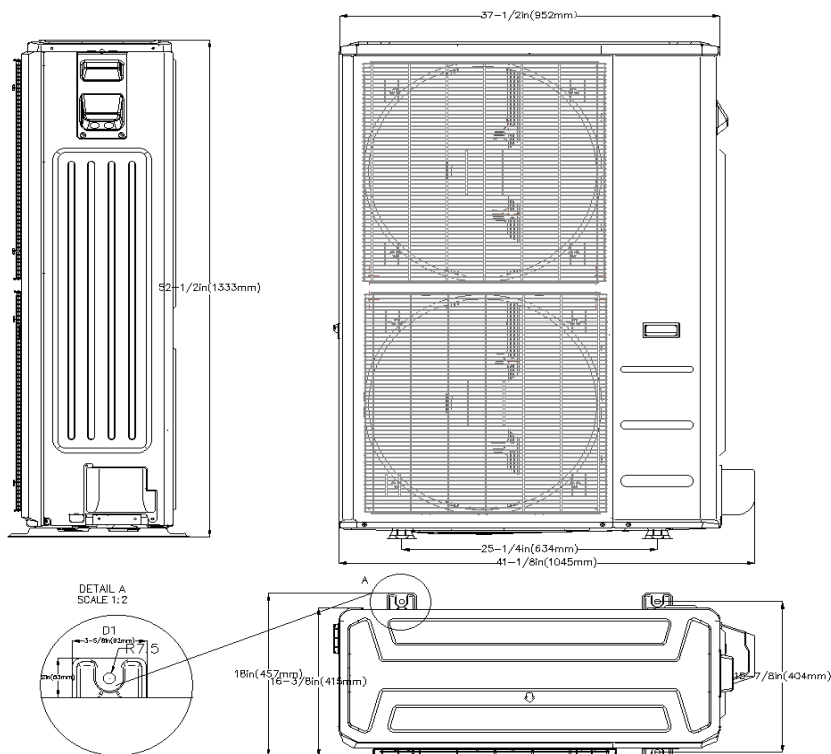
## Installation Instruction



Distance from ceiling relative to height of indoor unit

| MODEL      | Length of A    | Length of H              | Length of B    |
|------------|----------------|--------------------------|----------------|
| 9K/12K/18K | 9.6in (245mm)  | $>10.8\text{in}$ (275mm) | 23.6in (600mm) |
| 24K        | 8.03in (205mm) | 9.06in (230mm)           | 35.4in (900mm) |
| 36K        | 9.65in (245mm) | 10.7in (271mm)           |                |
| 48K        | 11.3in (287mm) | 12.3in (313mm)           |                |

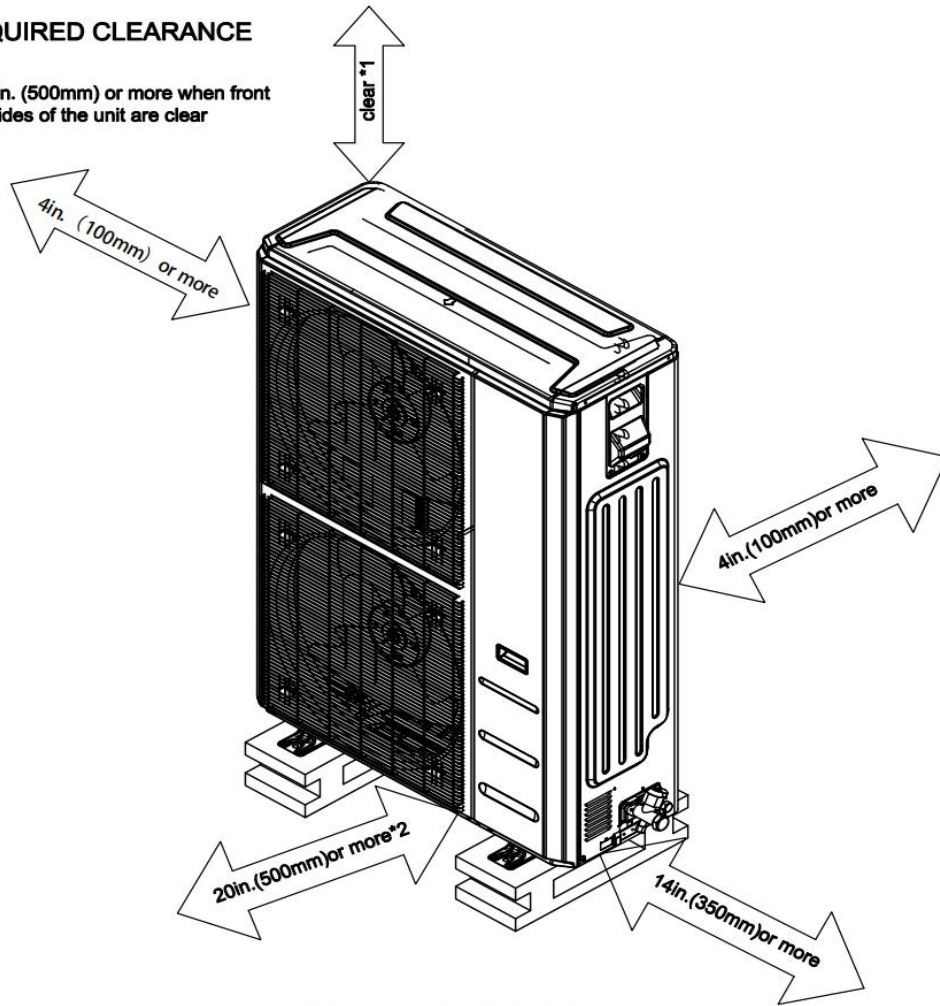
## Outdoor Unit Dimension



## 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

- 360° Air Flow
- Remote on-off and alarm ports
- Refrigerant leakage detection sensor(Optional)
- Humidity sensor
- Built-in pump
- 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