

**Air Handler Heat Pump System**

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


**INDOOR SPECIFICATION**

|                   |      |                         |
|-------------------|------|-------------------------|
| Dimension (WxDxH) | inch | 17-1/2 x 21 x 18        |
|                   | mm   | 445 x 533 x 457         |
| Package (WxDxH)   | inch | 20-1/2x 26-1/8 x 20-7/8 |
|                   | mm   | 520 x 665 x 530         |
| Net/Gross Weight  | lbs  | 42 / 50                 |
|                   | kg   | 19 / 22.5               |

**OUTDOOR SPECIFICATION**

|                              |               |                          |
|------------------------------|---------------|--------------------------|
| Compressor Type              | ROTARY        |                          |
| Compressor Model             | KTM240D46UKT2 |                          |
| Refrigerant                  | R454B         |                          |
| Refrigerant Oil Charge(mL)   | 620           |                          |
| Refrigerant Oil              | VG74          |                          |
| Outdoor Air Flow (Max) (CFM) | 1,766         |                          |
| Outdoor Noise Level (dBA)    | 60            |                          |
| Dimension (WxDxH)            | inch          | 35 x 13-1/2 x 26-1/2     |
|                              | mm            | 890 x 342 x 673          |
| Package (WxDxH)              | inch          | 39-1/8 x 15-5/8 x 29-1/8 |
|                              | mm            | 995 x 398 x 740          |
| Net/Gross Weight             | lbs           | 102 / 109                |
|                              | kg            | 46.4 / 49.5              |

**EFFICIENCY**

| Cooling |    | Heating |     |
|---------|----|---------|-----|
| SEER2   | 16 | HSPF2-4 | 9.5 |
| EER2    | 10 | COP     | 3.2 |

**PERFORMANCE of Cooling**

| Cooling (Btu/hr)                |                                                     |
|---------------------------------|-----------------------------------------------------|
| Rated Capacity                  | 24,000                                              |
| Min/Max Capacity                | 7,900~27,600                                        |
| Moisture Removal(L/h)           | 2.89                                                |
| Standard Operating Range(°F/°C) | -13~122 ( -25~50)                                   |
| Rated Cooling 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                                               | 25,000                                              |
| 2. @ 47°F Min/Max Capacity                                    | 6,500~30,000                                        |
| 3. @ 17°F Rated                                               | 19,700                                              |
| 4. @ 5°F Rated: Capacity / COP                                | 21,000/1.8                                          |
| 5. @ 5°F Max: Capacity                                        | 21,000                                              |
| Standard Operating Range(°F/°C)                               | -13~75 ( -25~24)                                    |
| 1. Rated Heating Conditions:                                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 47°F DB/43°F WB |
| 2. Rated Heating Conditions:                                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 17°F DB/15°F WB |
| 3. Heating Conditions, Compressor Operating at Max. Frequency | Indoor: 70°F DB/60°F WB<br>Outdoor: 5°F DB/5°F WB   |

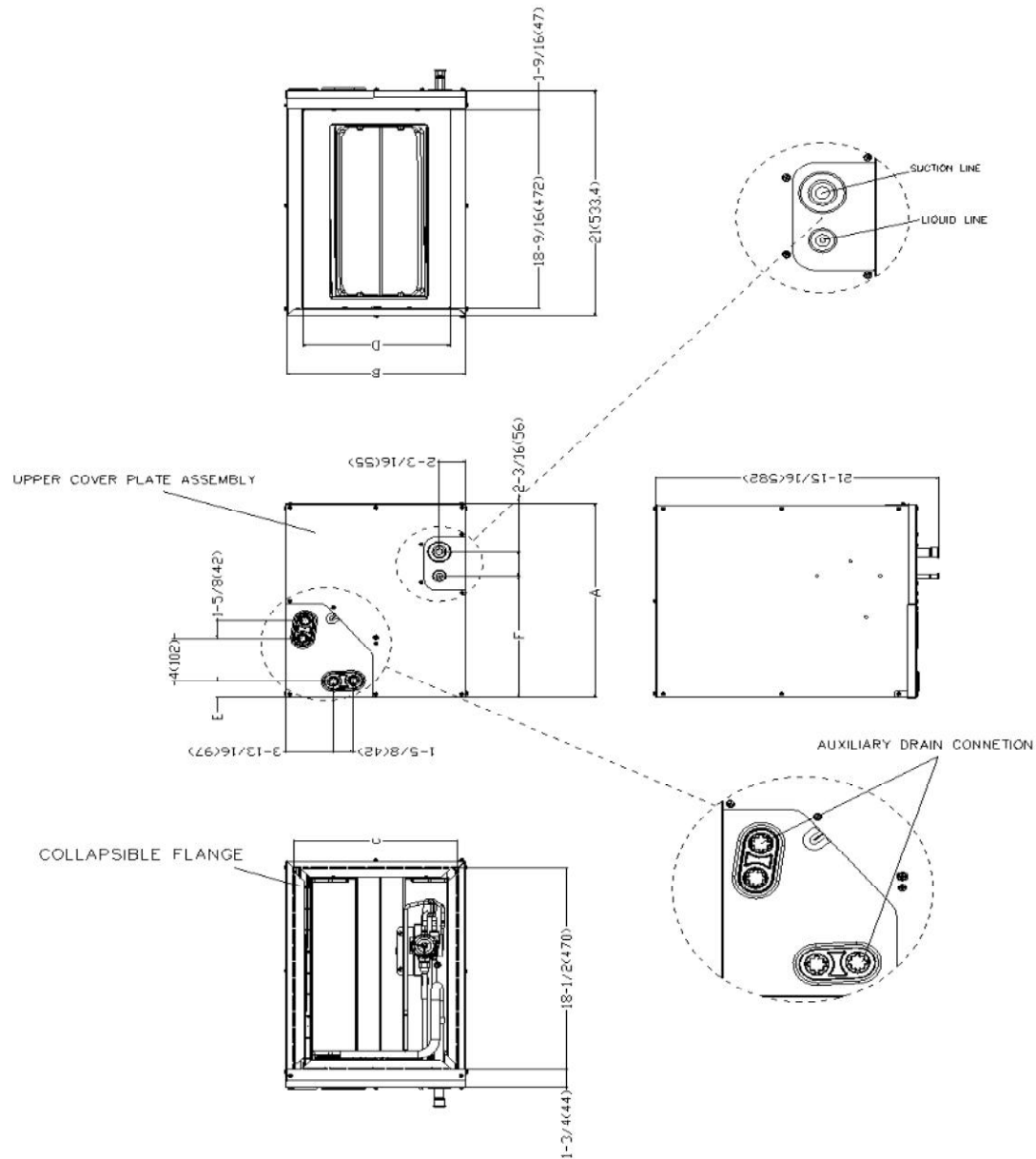
**ELECTRICAL**

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Indoor Power Supply              | 24V,60Hz,1Ph                           |
| Indoor MCA 115V/(208/230V)       | /                                      |
| Indoor MOP                       | /                                      |
| Outdoor Power Supply             | 208/230,60Hz,1Ph                       |
| Outdoor MCA                      | 19.0                                   |
| Outdoor MOP                      | 20.0                                   |
| Communication Wiring             | AWG 20/2                               |
| Compressor RLA                   | 14                                     |
| Outdoor Fan Motor RLA            | 1                                      |
| Outdoor Fan Motor W              | /                                      |
| Indoor Fan Motor RLA             | /                                      |
| Indoor Fan Motor W               | /                                      |
| System Power Input @ Cooling (W) | 2,400 ( 680 ~ 2,890)                   |
| System Power Input @ Heating (W) | 2,290 ( 330 ~2,900)                    |
| 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)                           | EXV           |
| Throttle type(Outdoor)                          | EXV           |
| Liquid Size                                     | 3/8" (9.52mm) |
| Gas Size                                        | 3/4" (19mm)   |
| Max. Piping Length(ft/m)                        | 164 ( 50)     |
| Max. Height Difference(ft/m)                    | 82 ( 25)      |
| Max. Pre-charged Length(ft/m)                   | 25 ( 7.5)     |
| Refrigerant Pre-charged Amount(oz/kg)           | 74 ( 2.1)     |
| Additional Charge of Refrigerant((oz/ft)/(g/m)) | 0.7 ( 65)     |
| Connection Method                               | Flared        |

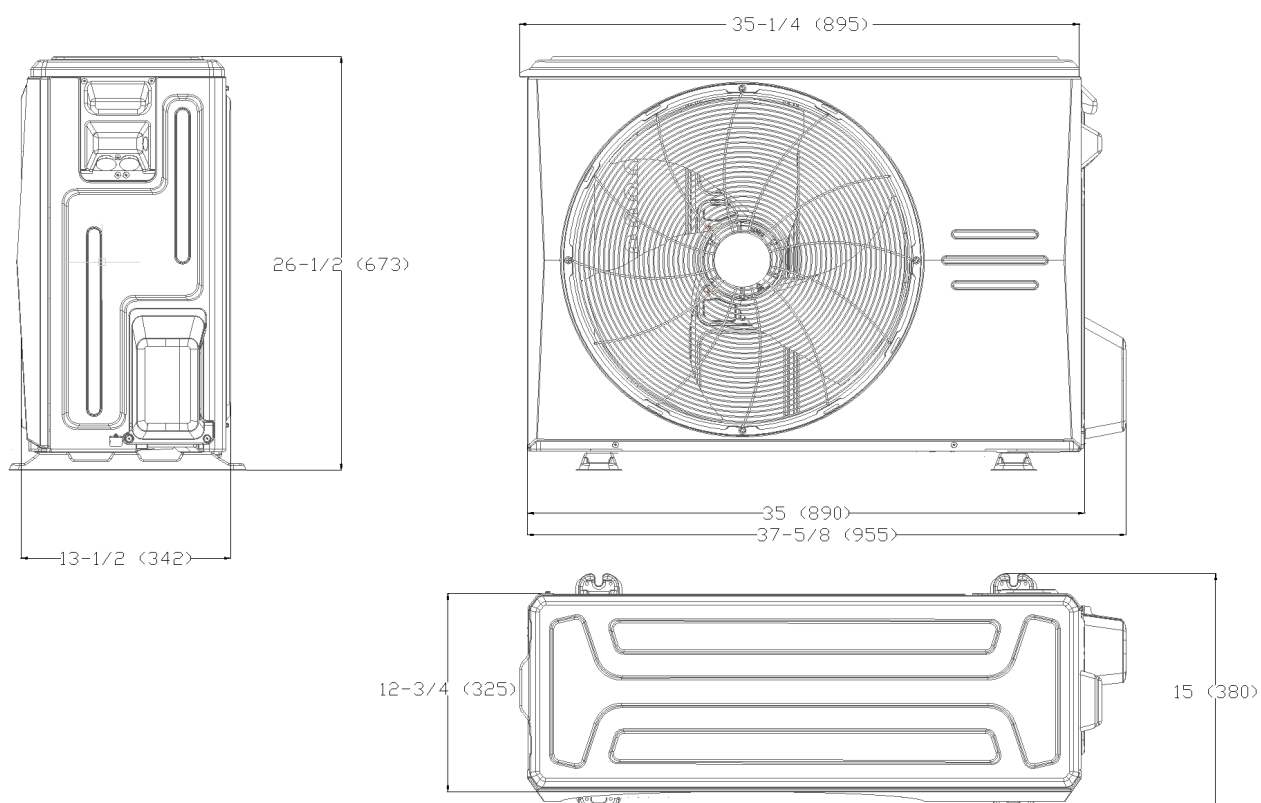
# Indoor Unit Dimension



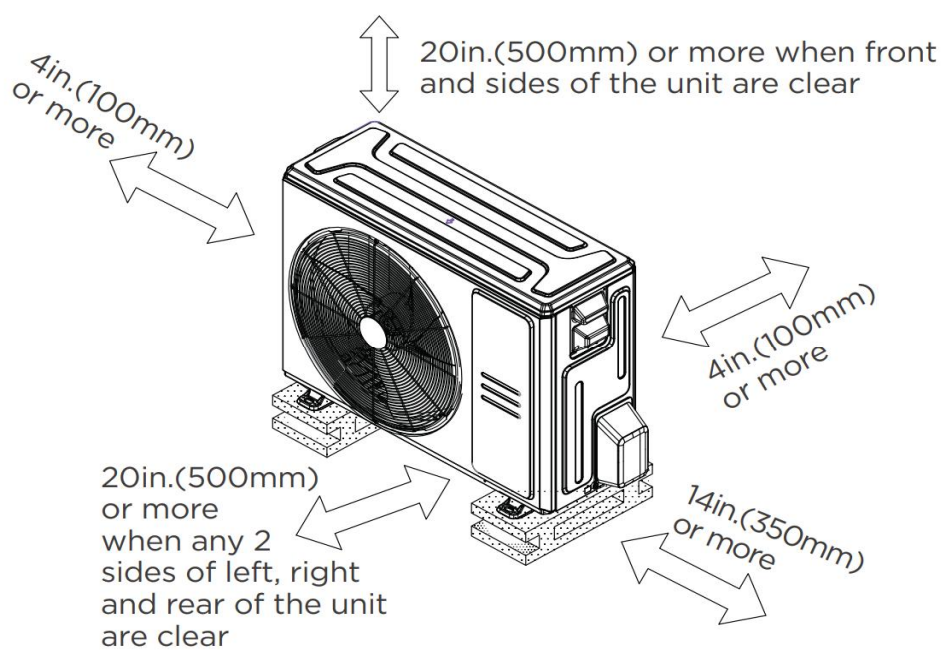
| Model(Btu/h) |                          | 24-A     |     | 36-A     |     | 36-B     |     |
|--------------|--------------------------|----------|-----|----------|-----|----------|-----|
| Dimensions   |                          | inch     | mm  | inch     | mm  | inch     | mm  |
| A            | Model Height             | 18       | 457 | 23-5/16  | 592 | 23-1/2   | 599 |
| B            | Model Width              | 14-1/2   | 368 | 14-1/2   | 368 | 17-1/2   | 445 |
| C            | Supply Air Opening Width | 13-1/4   | 336 | 13-1/4   | 336 | 16-3/16  | 411 |
| D            | Return Air Opening Width | 11-15/16 | 303 | 11-15/16 | 303 | 14-15/16 | 380 |
| E            | Condensate Drains Height | 1-7/16   | 38  | 1-7/16   | 38  | 1-7/16   | 38  |
| F            | Liquid Line Height       | 11-3/8   | 290 | 17-15/16 | 455 | 16-3/8   | 417 |
| Model(Btu/h) |                          | 24-B     |     | 36-C     |     |          |     |
| Dimensions   |                          | inch     | mm  | inch     | mm  |          |     |
| A            | Model Height             | 18       | 457 | 24       | 611 |          |     |
| B            | Model Width              | 17-1/2   | 445 | 21       | 534 |          |     |
| C            | Supply Air Opening Width | 16-3/16  | 411 | 19-3/4   | 502 |          |     |
| D            | Return Air Opening Width | 14-15/16 | 380 | 18-7/16  | 468 |          |     |
| E            | Condensate Drains Height | 1-7/16   | 38  | 2-3/16   | 55  |          |     |
| F            | Liquid Line Height       | 11-3/8   | 290 | 17-1/2   | 445 |          |     |

## Outdoor Unit Dimension

Unit:inch(mm)



## Installation Instruction For Outdoor Unit



### Features

- Multi-position installation: horizontal(left or right), vertical( up or down)
- Aluminum Coil
- R454B refrigerant sensor
- Easy Maintenance
- Multiple control options available:
  - Two way communication wired controller with built-in WiFi:AWC-8P-LC-WIFI
  - Third-Party 24V Thermostat