

# SUBMITTAL DATA SHEET

Series Name: Hyper Heat AHU Series  
Model Number: CCOXHBSZ17HP/CCOXHBAHU18



## Air Handler Heat Pump System

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



## INDOOR SPECIFICATION

|                                           |                                       |
|-------------------------------------------|---------------------------------------|
| Indoor Air Flow (Turbo/H/M/L/Si) (CFM)    | 618.0 / 576.8 / 529.7 / 488.5 / 488.5 |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) | 42.5/42.5/37.5/30/30                  |
| Dimensions W×D×H (inches)                 | 17.52 x 21.02 x 45.00                 |
| Package W×D×H (inches)                    | 26.57 x 20.87 x 48.62                 |
| Net/Gross Weight                          | 104.72/125.66                         |

## OUTDOOR SPECIFICATION

|                              |                       |
|------------------------------|-----------------------|
| Compressor Type              | ROTARY                |
| Compressor Model             | KTM240D46UKT2         |
| Refrigerant                  | R454B                 |
| Refrigerant Oil Charge(mL)   | 620                   |
| Refrigerant Oil              | VG74                  |
| Outdoor Air Flow (Max) (CFM) | 1765.8                |
| Outdoor Noise Level (dBA)    | 59                    |
| Dimensions W×D×H (inches)    | 35.04 x 13.46 x 26.50 |
| Package W×D×H (inches)       | 39.17 x 15.67 x 29.13 |
| Net/Gross Weight             | 99.87/107.80          |

## EFFICIENCY

| Cooling |    | Heating |      |
|---------|----|---------|------|
| SEER2   | 18 | HSPF2-4 | 10.0 |
| EER2    | 12 | COP     | 3.6  |

## COOLING PERFORMANCE (Btu/hr)

|                                 |                                                     |
|---------------------------------|-----------------------------------------------------|
| Rated Capacity                  | 18000                                               |
| Min/Max Capacity                | 6000~20400                                          |
| Moisture Removal(L/h)           | 1.69                                                |
| 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 |

## HEATING PERFORMANCE (Btu/hr)

|                                 |                                                     |
|---------------------------------|-----------------------------------------------------|
| 1. @ 47°F Rated                 | 19500                                               |
| 1. @ 47°F Min/Max Capacity      | 5000~21600                                          |
| 2. @ 17°F Rated                 | 14000                                               |
| 3. @ 5°F Rated: Capacity / COP  | 18000/2.2                                           |
| 3. @ 5°F Max: Capacity          | 18000                                               |
| 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   |

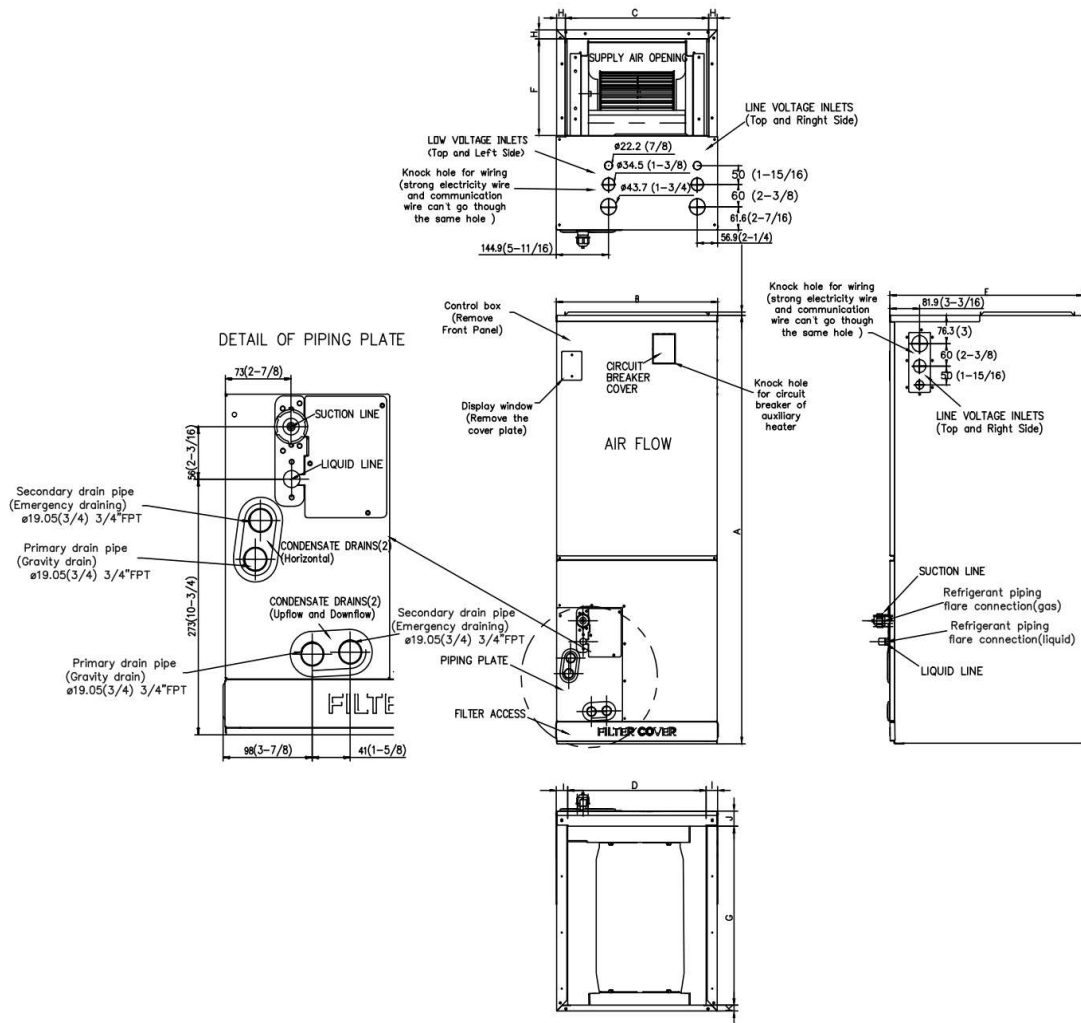
## ELECTRICAL

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Power Supply                     | 208/230V,60Hz,1Ph                      |
| System MCA                       | 19                                     |
| Connection Wiring                | AWG 14-4                               |
| System MOCP                      | 20                                     |
| Compressor RLA                   | 11.7                                   |
| Outdoor Fan Motor RLA            | 0.9                                    |
| Outdoor Fan Motor W              | 80                                     |
| Indoor Fan Motor RLA             | 2.3                                    |
| Indoor Fan Motor W               | 250                                    |
| System Power Input @ Cooling (W) | 1500(250 ~ 1900)                       |
| System Power Input @ Heating (W) | 1570(300 ~1920)                        |
| MCA: Min. circuit amps (A)       | MOCP: Max. over current protection (A) |
| RLA: Rated load amps (A)         | W: Fan motor rated output (W)          |

## PIPING

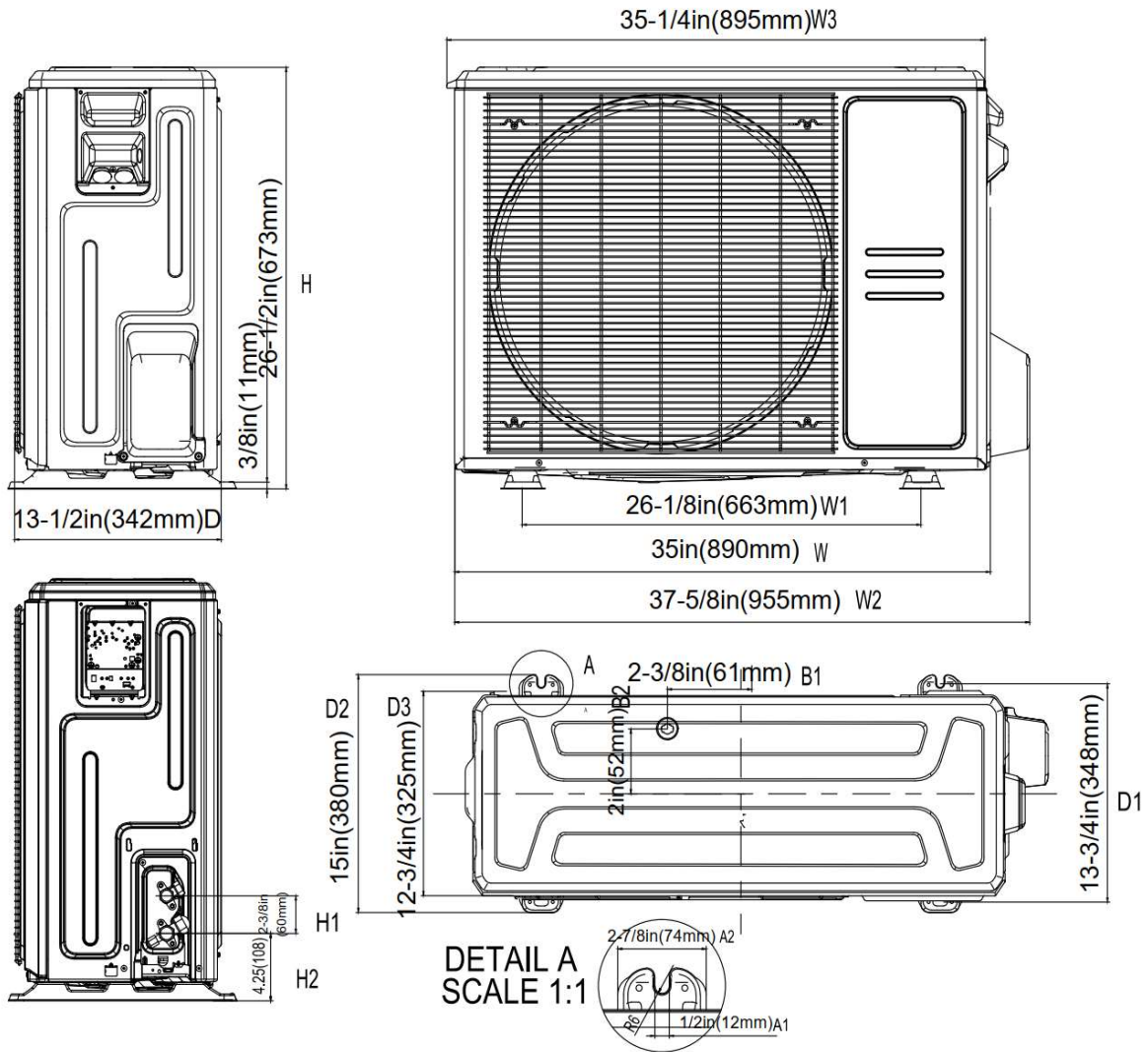
|                                       |                    |
|---------------------------------------|--------------------|
| Throttle type(Indoor)                 | N/A                |
| Throttle type(Outdoor)                | EXV+Throttle valve |
| Liquid Size                           | 6.35mm(1/4in)      |
| Gas Size                              | 12.7mm(1/2in)      |
| Max. Piping Length(ft/m)              | 98.4(30)           |
| Max. Height Difference(ft/m)          | 65.6(20)           |
| Max. Pre-charged Length(ft/m)         | 24.6(7.5)          |
| Refrigerant Pre-charged Amount(oz/kg) | 55.38(1.57)        |
| Additional Charge (oz/ft)/(g/m)       | 0.16(15)           |
| Connection Method                     | Flared             |

# Indoor Unit Dimensions

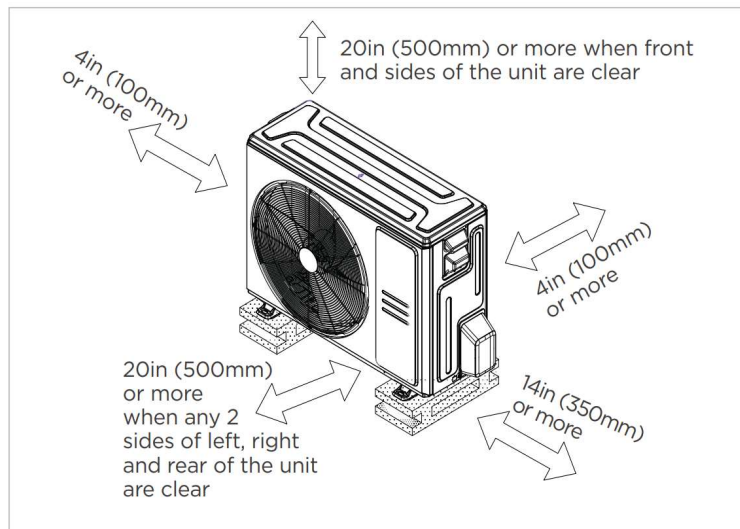


| Dimensions | Model                              | 18k/24k |      | 30k/36k |      | 48k/60k |      |
|------------|------------------------------------|---------|------|---------|------|---------|------|
|            |                                    | inch    | mm   | inch    | mm   | inch    | mm   |
| A          | Model Height                       | 45      | 1143 | 49      | 1245 | 53      | 1346 |
| B          | Model Width                        | 17-1/2  | 445  | 21      | 534  | 24-1/2  | 622  |
| C          | Supply Air Opening Width           | 15-5/8  | 397  | 19-1/8  | 486  | 22-5/8  | 575  |
| D          | Return Air Opening Width           | 15-1/8  | 384  | 18-5/8  | 473  | 22-1/8  | 562  |
| E          | Model Depth                        | 21      | 534  | 21      | 534  | 21      | 534  |
| F          | Supply Air Opening Depth           | 10-1/4  | 260  | 10-1/4  | 260  | 10-1/4  | 260  |
| G          | Return Air Opening Depth           | 18-3/4  | 476  | 18-3/4  | 476  | 18-3/4  | 476  |
| H          | Supply Air Opening Clearance       | 15/16   | 24   | 15/16   | 24   | 15/16   | 24   |
| I          | Return Air Opening Side Clearance  | 1-1/4   | 32   | 1-1/4   | 32   | 1-1/8   | 28   |
| J          | Return Air Opening Front Clearance | 1-1/2   | 38   | 1-5/8   | 41   | 1-5/8   | 41   |
| K          | Return Air Opening Back Clearance  | 5/8     | 16   | 5/8     | 16   | 3/4     | 19   |

## Outdoor Unit Dimensions

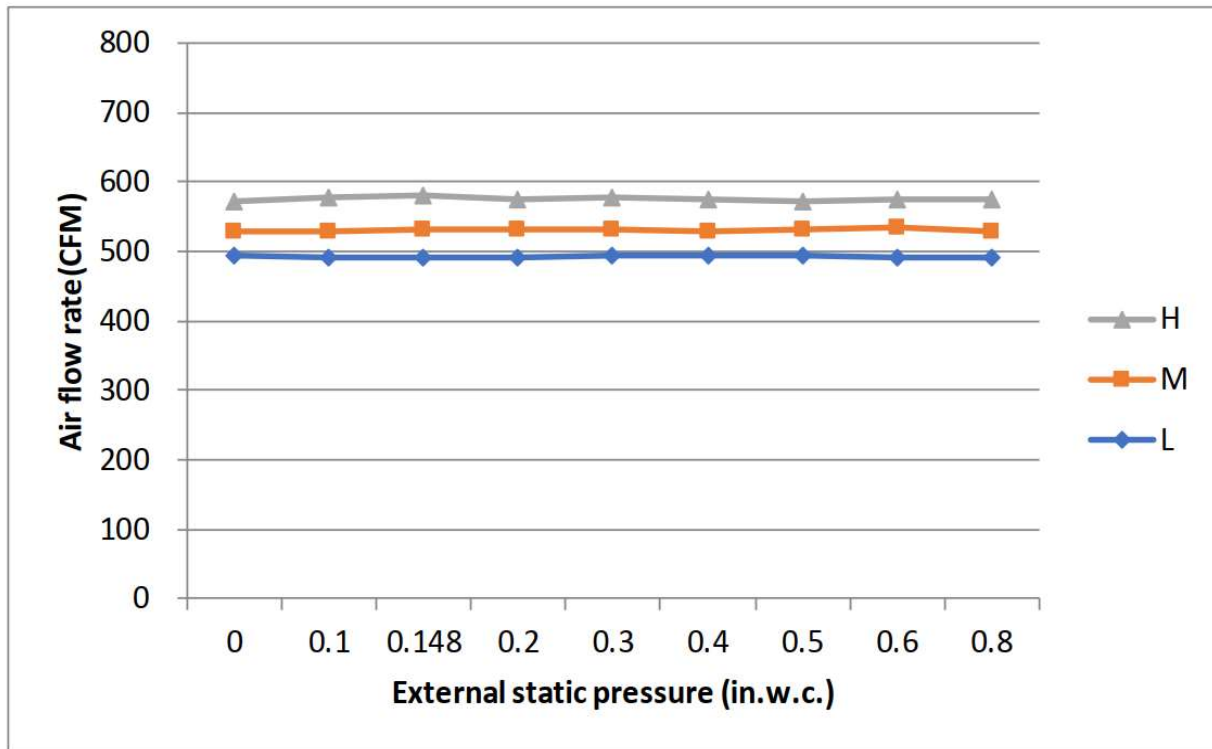


## Outdoor Unit Clearances



✓ Meets all spatial requirements shown in Installation Clearance Requirements above.

#### Fan Performance For Indoor Unit



#### Features

- Multi-position installation: horizontal(left or right), vertical( up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency(optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
  - Two way communication wired controller:120N(X6)
  - Two way communication wired controller with built-in WiFi:120N(X6W)
  - Wireless remote controller
  - Third-Party 24V Thermostat
- High efficiency up to 18.7 SEER2, 12 EER2, 10 HSPF2
- 100% heat output at 5F\*
- Energy Star and Cold Climate Energy Star certified
- Chassis heater and crankcase heater equipped as standard

\* Rated cooling capacity/heating capacity at 5F>=100%