

**R454b**  
Refrigerant

# SUBMITTAL DATA SHEET



Series Name: Extreme Heat AHU Series  
Model Number: MAUSE-H30B-2A/MO1HE-H30B-2A

| Air Handler Heat Pump System |               |
|------------------------------|---------------|
| Location:                    | Approval:     |
| Engineer:                    | Date:         |
| Submitted to:                | Construction: |
| Submitted by:                | Unit #:       |
| Reference:                   | Drawing #:    |



| EFFICIENCY |      |         |      |
|------------|------|---------|------|
| Cooling    |      | Heating |      |
| SEER2      | 17.2 | HSPF2-4 | 10.8 |
| EER2       | 12.0 | COP     | 3.54 |

| PERFORMANCE of Cooling          |   |
|---------------------------------|---|
| Cooling (Btu/hr)                |   |
| Rated Capacity                  | 30,000  |
| Min/Max Capacity                | 11,200 ~ 40,000                                     |
| Moisture Removal(L/h)           | 3.15  |
| Standard Operating Range(°F/°C) | -22~122 (-30 ~ 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   | 33,000  |
| 2. @ 47°F Min/Max Capacity                                    | 9,700 ~ 35,800                                      |
| 3. @ 17°F Rated   | 24,000  |
| 4. @ 5°F Rated: Capacity / COP                                | 33,200 / 1.97                                       |
| 5. @ 5°F Max: Capacity  | 33,200  |
| Standard Operating Range(°F/°C)                               | -22~75 (-30 ~ 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   |

\* When MO1HE-H30B-2A is paired with MAUSE-H30B-2A, an additional 0.6kg/21.16oz of refrigerant is required.

| INDOOR SPECIFICATION                      |                              |
|---|------------------------------|
| ESP(inWG)                                 | 0~1.0                        |
| Indoor Air Flow (Turbo/H/M/L/Si) (CFM)    | 989 / 895 / 806 / 712 / 712  |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) | 49 / 47 / 45.5 / 31.5 / 31.5 |
| Dimension (WxDxH)                         | inch<br>mm                   |
| Package (WxDxH)                           | inch<br>mm                   |
| Net/Gross Weight                          | lbs<br>kg                    |

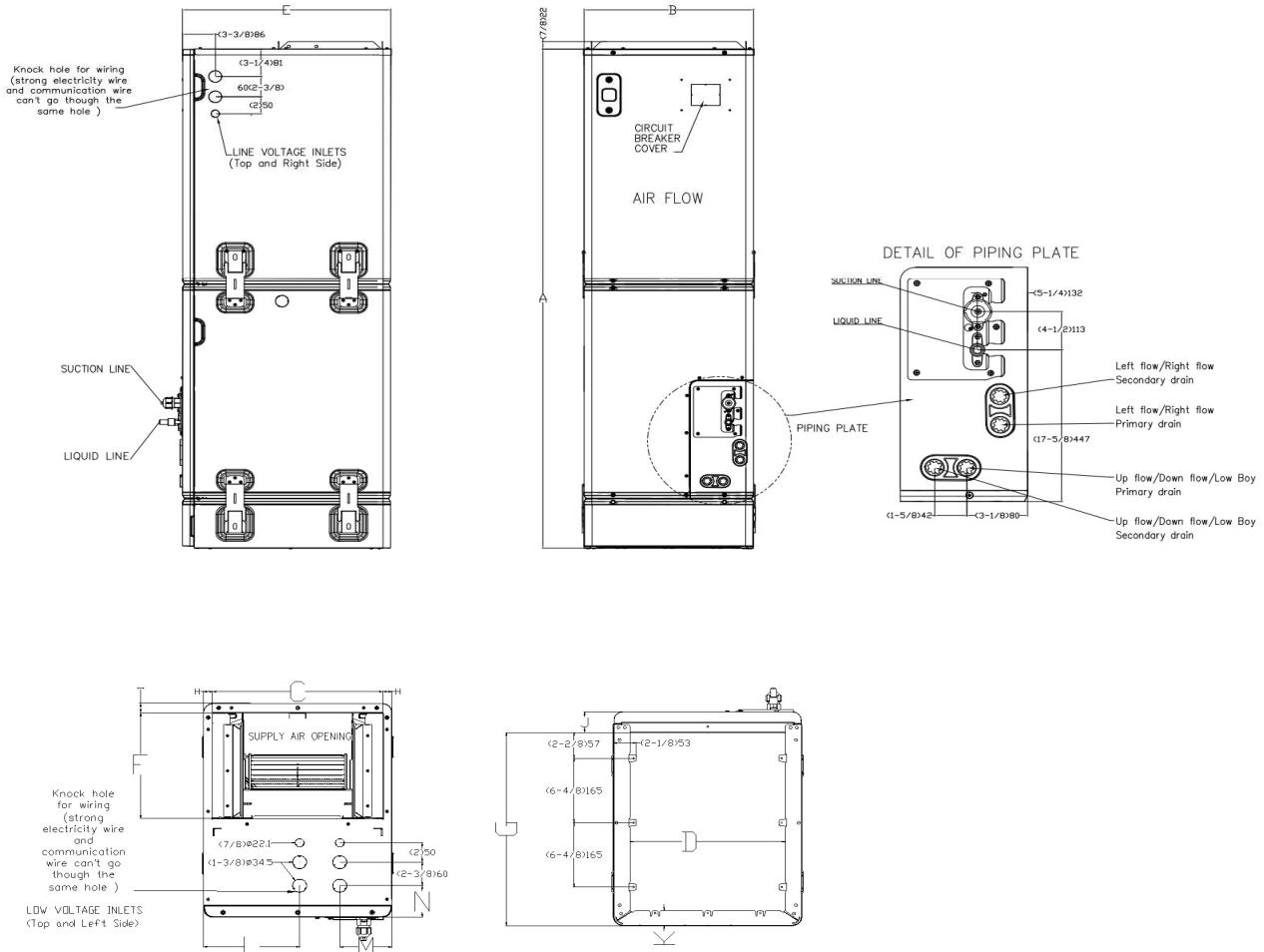
| OUTDOOR SPECIFICATION        |                |
|------------------------------|----------------|
| Compressor Type              | ROTARY         |
| Compressor Model             | MTH356UKRC8FQL |
| Refrigerant                  | R454B          |
| Refrigerant Oil Charge(mL)   | 1,300          |
| Refrigerant Oil              | HAF68D1A       |
| Outdoor Air Flow (Max) (CFM) | 3,002          |
| Outdoor Noise Level (dBA)    | 62             |
| Dimension (WxDxH)            | inch<br>mm     |
| Package (WxDxH)              | inch<br>mm     |
| Net/Gross Weight             | lbs<br>kg      |

| ELECTRICAL                       |  |
|----------------------------------|--|
| Indoor Power Supply              | 115/208/230V,60Hz,1Ph                  |
| Indoor MCA 115V/(208/230V)       | 8.0/6.0                                |
| Indoor MOP                       | 15.0                                   |
| Outdoor Power Supply             | 208/230V,60Hz,1Ph                      |
| Outdoor MCA                      | 29.5                                   |
| Outdoor MOP                      | 30.0                                   |
| Communication Wiring             | AWG 20/2                               |
| Compressor RLA                   | 18.0                                   |
| Outdoor Fan Motor RLA            | 1.0                                    |
| Outdoor Fan Motor W              | 120                                    |
| Indoor Fan Motor RLA             | 4.5                                    |
| Indoor Fan Motor W               | 600                                    |
| System Power Input @ Cooling (W) | 2500 (1,020 ~ 3,880)                   |
| System Power Input @ Heating (W) | 2,730 (580 ~ 3,030)                    |
| 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)*          | 106 (3)       |
| Additional Charge of Refrigerant((oz/ft)/(g/m)) | 0.7 (65)      |
| Connection Method                               | Flared        |

### Indoor Unit Dimension

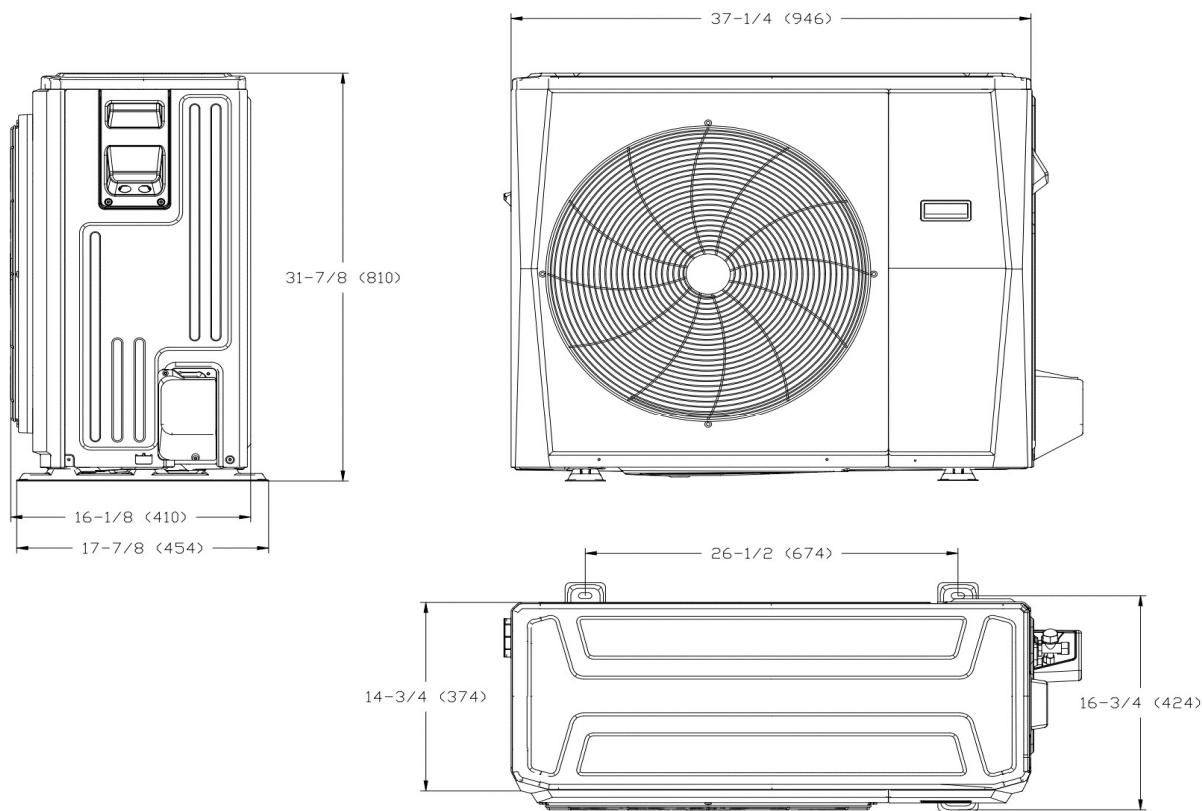
Unit: inch, mm



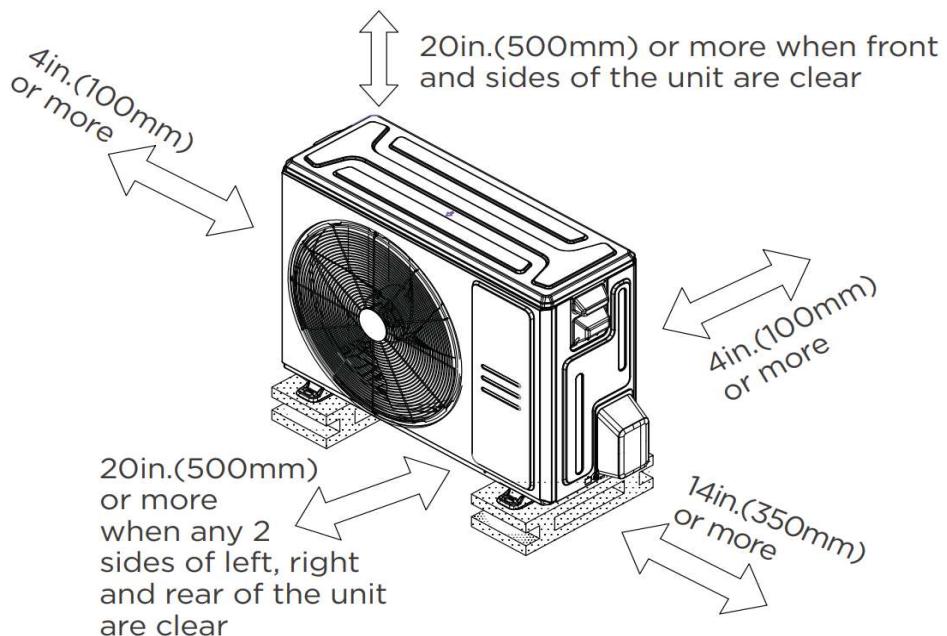
| Dimensions | Model(Btu/h)                       | 18K/24K |      | 30K/36K |      | 48K/54K |      |
|------------|------------------------------------|---------|------|---------|------|---------|------|
|            |                                    | inch    | mm   | inch    | mm   | inch    | mm   |
| A          | Model Height                       | 53-7/8  | 1368 | 58-1/8  | 1476 | 60-1/8  | 1526 |
| B          | Model Width                        | 14-4/8  | 368  | 17-4/8  | 445  | 21-4/8  | 546  |
| C          | Supply Air Opening Width           | 12-7/8  | 328  | 16      | 405  | 19-7/8  | 506  |
| D          | Return Air Opening Width           | 11-1/8  | 282  | 14-4/8  | 368  | 18-4/8  | 470  |
| E          | Model Depth                        | 21-1/2  | 546  | 21-1/2  | 546  | 21-1/2  | 546  |
| F          | Supply Air Opening Depth           | 10-5/8  | 271  | 10-5/8  | 271  | 10-5/8  | 271  |
| G          | Return Air Opening Depth           | 19      | 484  | 19      | 484  | 19      | 484  |
| H          | Supply Air Opening Clearance       | 7/8     | 22   | 7/8     | 22   | 7/8     | 22   |
| I          | Supply Air Opening Clearance       | 1       | 24   | 1       | 24   | 1       | 24   |
| J          | Return Air Opening Front Clearance | 2-4/8   | 62   | 2-4/8   | 62   | 2-4/8   | 62   |
| K          | Return Air Opening Back Clearance  | 1-4/8   | 37   | 1-4/8   | 37   | 1-4/8   | 37   |
| L          | Top cover knock hole               | /       | /    | 9       | 229  | 10-7/8  | 275  |
| M          | Top cover knock hole               | 4-1/2   | 113  | 4-7/8   | 124  | 5-1/8   | 131  |
| N          | Top cover knock hole               | 2       | 51   | 2       | 51   | 1-5/8   | 41   |

#### Outdoor Unit Dimension

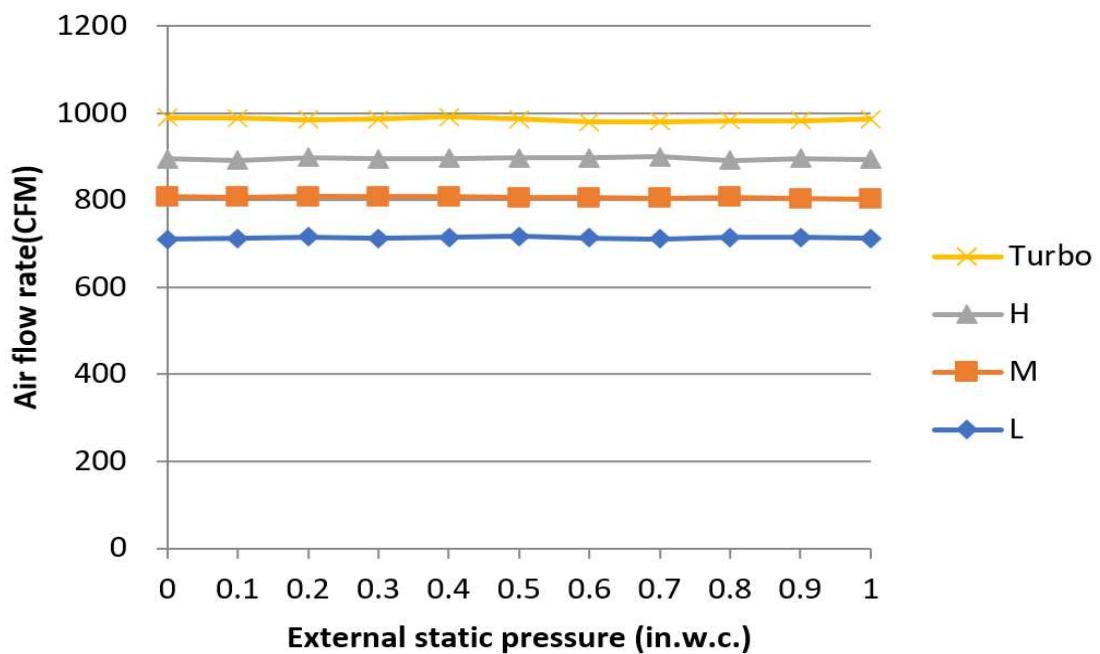
Unit: inch (mm)



#### Installation Instruction For Outdoor Unit



#### Fan Performance For Indoor Unit



#### Features

- Multi-position installation: horizontal(left or right), vertical( up or down)
- The IDU supports 115/230V voltage compatibility
- Aluminum Coil
- Constant Air Flow system: Up to 1.0 In.W.C.
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
  - Two-way communication wired controller with built-in Wi-Fi: 120N (X6W)
  - Wireless remote controller
  - Third-Party 24V Thermostat
- Adaptive Control System
- High efficiency up to 19 SEER2, 12.5 EER2, 10.8 HSPF2
- 100% heating output down to -13°F\*
- Base pan heater and crankcase heater are equipped as standard

\* When MAUSE-H36B-2A is paired with MO1SE-H36B-2A, its rated heating capacity at -13°F is 100%