**R454b**
**Refrigerant**

# SUBMITTAL DATA SHEET

Series Name: EVOX Multi-Position Air Handler Extreme Heat Series
Model Number: MAUHE-H60B-2A/MO1HE-H48B-2A

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



| INDOOR SPECIFICATION | | |
|---|---|---|
| ESP (in.W.C.) | | 0-0.8 |
| Indoor Air Flow (Turbo/H/M/L/Si) (CFM) | | 1,601 / 1,471 / 1,283 / 1,095 / 1,095 |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) | | 52 / 52 / 50 / 34 / 34 |
| Dimension (W×D×H) | inch | 24-1/2 x 21 x 53 |
| | mm | 622 × 534 × 1,346 |
| Package (W×D×H) | inch | 27-3/8 x 27-3/4 x 56-1/2 |
| | mm | 695 × 705 × 1,435 |
| Net/Gross Weight | lbs | 163 / 191 |
| | kg | 73.9 / 86.6 |

| OUTDOOR SPECIFICATION | | |
|---|---|---|
| Compressor Type | | TWIN-ROTARY |
| Compressor Model | | MTH550UKPC8FU |
| Refrigerant | | R454B |
| Refrigerant Oil Charge(mL) | | 1,800 |
| Refrigerant Oil | | HAF68D1C |
| Outdoor Air Flow (Max) (CFM) | | 3,037 |
| Dimension (W×D×H) | inch | 38-9/16 x 16-3/8 x 38-3/8 |
| | mm | 980 × 415 × 975 |
| Package (W×D×H) | inch | 45-1/16 x 19-11/16 x 42-1/2 |
| | mm | 1,145 × 500 × 1,080 |
| Net/Gross Weight | lbs | 201 /232 |
| | kg | 91.2 / 105.4 |

| EFFICIENCY | | | |
|---|---|---|---|
| Cooling | | Heating | |
| SEER2 | 16.5 | HSPF2-4 | 9.5 |
| EER2 | 10.5 | COP | 3.40 |

| PERFORMANCE of Cooling | |
|---|---|
| Cooling (Btu/hr) | |
| Rated Capacity | 48,000 |
| Min/Max Capacity | 15,600 ~ 51,000 |
| Moisture Removal(L/h) | 3.85 |
| Standard Operating Range(°F/°C) | -22~122(-30～50) |
| Rated Cooling Conditions: | Indoor: 80°F DB/67°F WB |
| | Outdoor: 95°F DB/75°F WB |

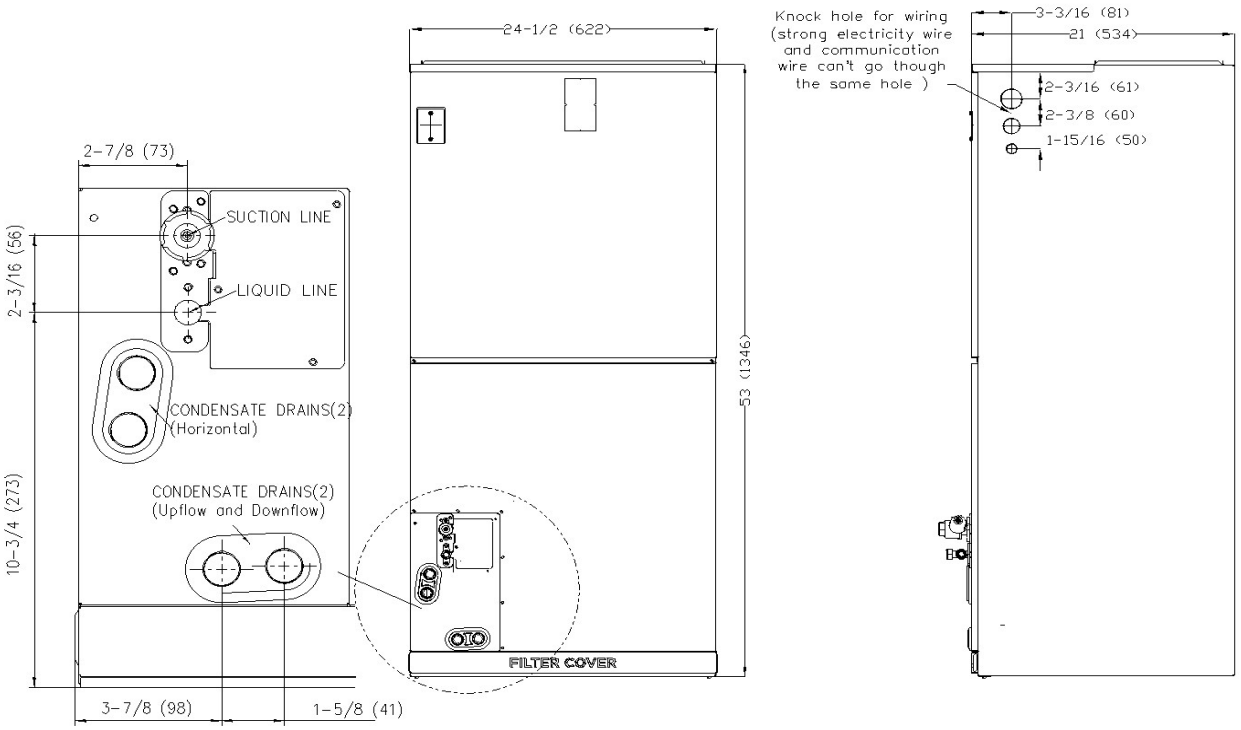
| PERFORMANCE of Heating | |
|---|---|
| Heating (Btu/hr) | |
| 1. @ 47°F Rated | 50,000 |
| 2. @ 47°F Min/Max Capacity | 15,500 ~ 57,300 |
| 3. @ 17°F Rated | 37,000 |
| 4. @ 5°F Rated: Capacity / COP | 46,000/1.9 |
| 5. @ 5°F Max: Capacity | 46,000 |
| Standard Operating Range(°F/°C) | -22~75 (-30～24) |
| 1. Rated Heating Conditions: | Indoor: 70°F DB/60°F WB |
| | Outdoor: 47°F DB/43°F WB |
| 2. Rated Heating Conditions: | Indoor: 70°F DB/60°F WB |
| | Outdoor: 17°F DB/15°F WB |
| 3. Heating Conditions, Compressor Operating at Max. Frequency | Indoor: 70°F DB/60°F WB |
| | Outdoor: 5°F DB/5°F WB |

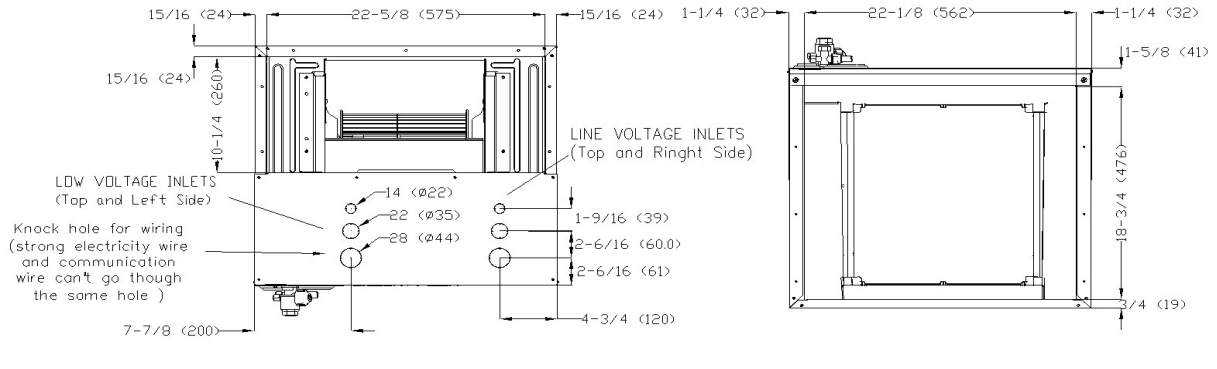
| ELECTRICAL | |
|---|---|
| Indoor Power Supply | 115/208/230V,60Hz,1Ph |
| Indoor MCA 115V/(208/230V) | 14.5/11.0 |
| Indoor MOP | 15.0 |
| Outdoor Power Supply | 208/230V,60Hz,1Ph |
| Outdoor MCA | 38.0 |
| Outdoor MOP | 40.0 |
| Communication Wiring | AWG 20/2 |
| Compressor RLA | 28.0 |
| Outdoor Fan Motor RLA | 2.0 |
| Outdoor Fan Motor W | 250 |
| Indoor Fan Motor RLA | 7.8 |
| Indoor Fan Motor W | 750 |
| System Power Input @ Cooling (W) | 4,570 (1,340 ~ 5,180) |
| System Power Input @ Heating (W) | 4,310 (1,040 ~ 5,200) |
| **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) | 246 (75) |
| Max. Height Difference(ft/m) | 98 (30) |
| Max. Pre-charged Length(ft/m) | 25 (7.5) |
| Refrigerant Pre-charged Amount(oz/kg) | 134 (3.8) |
| Additional Charge of Refrigerant((oz/ft)/(g/m) | 0.7 (65) |
| Connection Method | Flared |

## Indoor Unit Dimension

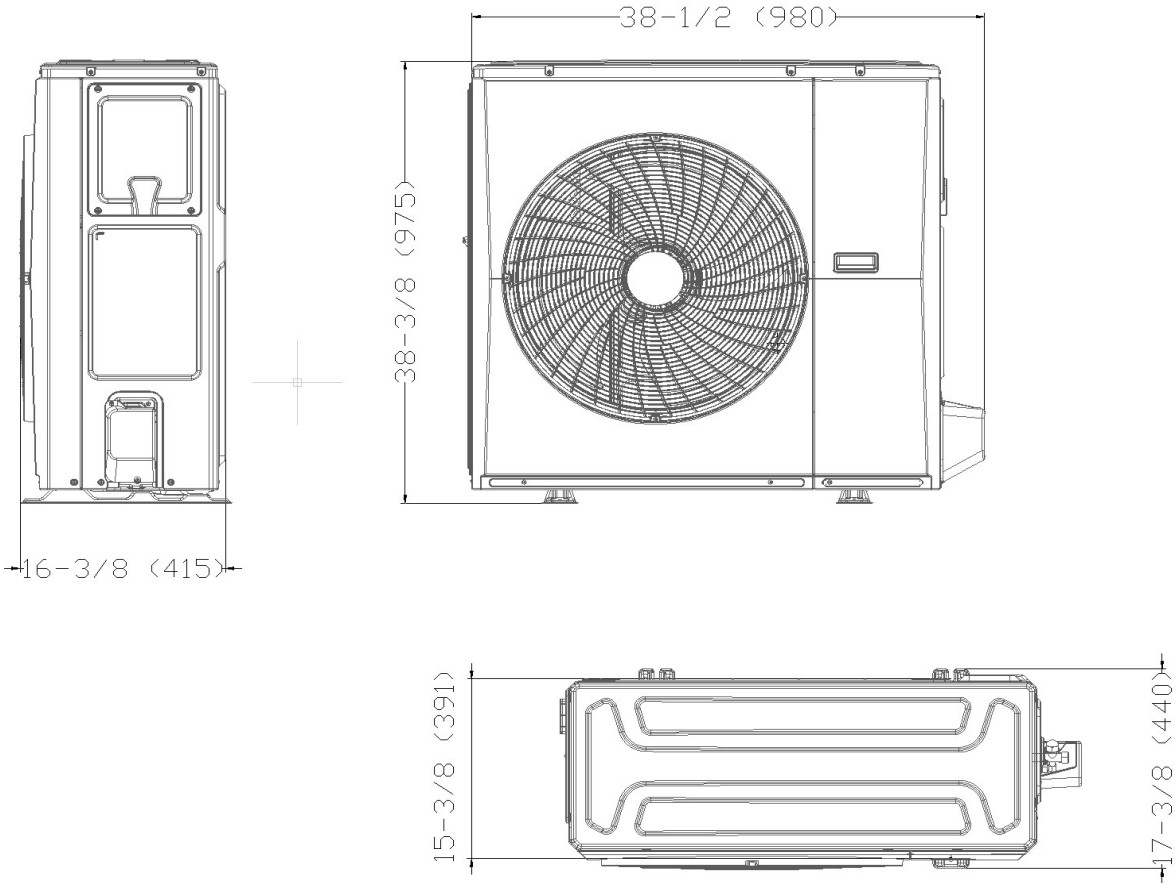
**Unit:inch(mm)**



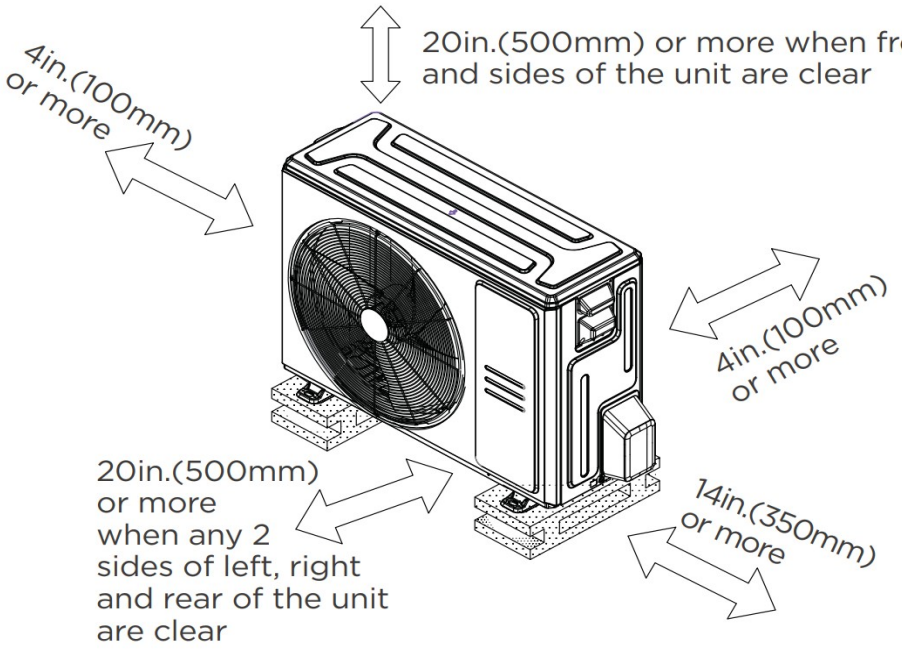



## Outdoor Unit Dimension

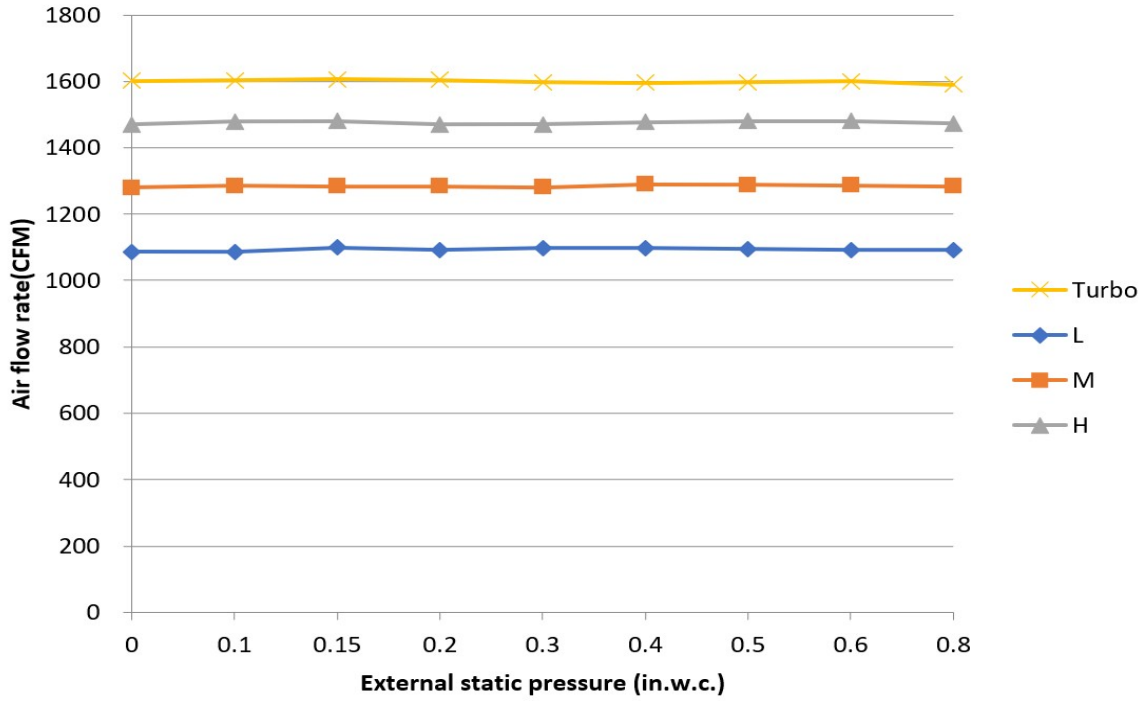
Unit:inch(mm)



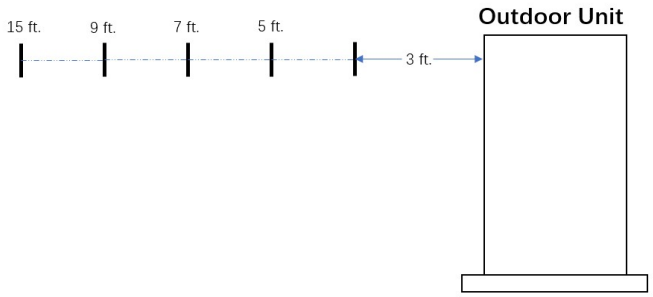

## Installation Instruction For Outdoor Unit



## Fan Performance For Indoor Unit




## Outdoor Unit Sound Pressure Data




| | Maximum Sound Pressure (dBA) | | | | |
|---|---|---|---|---|---|
| Model | 3' | 5' | 7' | 9' | 15' |
| MO1HE-H18B-2A | 54.7 | 52.8 | 51.5 | 50.6 | 48.7 |
| MO1HE-H24B-2A | 55.9 | 54.0 | 52.7 | 51.8 | 49.9 |
| MO1HE-H30B-2A | 59.9 | 58.0 | 56.7 | 55.8 | 53.9 |
| MO1HE-H36B-2A | 60.2 | 58.3 | 57.0 | 56.1 | 54.2 |
| MO1SE-H36B-2A | 59.3 | 57.5 | 56.3 | 55.4 | 53.5 |
| MO1HE-H42B-2A | 60.9 | 59.0 | 57.7 | 56.8 | 54.9 |
| MO1HE-H48B-2A | 60.9 | 59.0 | 57.7 | 56.8 | 54.9 |
| MO1SE-H48B-2A | 62.1 | 60.2 | 58.9 | 58.0 | 56.1 |
| MO1HE-H60B-2A | 62.1 | 60.2 | 58.9 | 58.0 | 56.1 |

**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 0.8 In.W.C.
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
  - Wireless remote controller RG10 (Built-In)
  - Two-way communication programmable wired controller with built-in Wi-Fi:120N(X6W)
  - Midea Smart Thermostat
  - Third-Party 24V Thermostat
- Adaptive Control System
- 100% heating output down to -4°F*
- Standard graphene fins, a standard feature of the outdoor unit, deliver superior corrosion resistance
- The outdoor unit comes standard with chassis and crankshaft electric heating
- Built-in Refrigerant Detection Sensor

* When MAUHE-H36B-2A is paired with MO1SE-H36B-2A, its rated heating capacity at -4°F is 100%