R454b
Refrigerant

# SUBMITTAL DATA SHEET

Series Name: EVOX Dual-Fuel System (Uncased Coil) Extreme Heat Series
Model Number: MAAHE-H36B-BA-UC/MO1SE-H36B-2A

Midea

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





| INDOOR SPECIFICATION | | |
|---|---|---|
| Dimension (W×D×H) | inch | 16-1/8 x 22-5/8 x 20-1/8 |
| | mm | 410 x 576 x 512 |
| Package (W×D×H) | inch | 19-1/8 x 26-1/8 x 26-3/4 |
| | mm | 485 x 665 x 680 |
| Net/Gross Weight | lbs | 27.3 / 45.4 |
| | kg | 12.4 / 20.6 |

| OUTDOOR SPECIFICATION | | |
|---|---|---|
| Compressor Type | | TWIN-ROTARY |
| Compressor Model | | EKPQ420D1UMUA |
| Refrigerant | | R454B |
| Refrigerant Oil Charge(mL) | | 1460 |
| Refrigerant Oil | | VG75 |
| Outdoor Air Flow (Max) (CFM) | | 3,002 |
| Outdoor Noise Level (dBA) | | 64 |
| 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 | 204 / 235 |
| | kg | 92.6 / 106.7 |

| EFFICIENCY | | | |
|---|---|---|---|
| Cooling | | Heating | |
| SEER2 | 15.8 | HSPF2-4 | 9.4 |
| EER2 | 10.7 | COP | 3.3 |

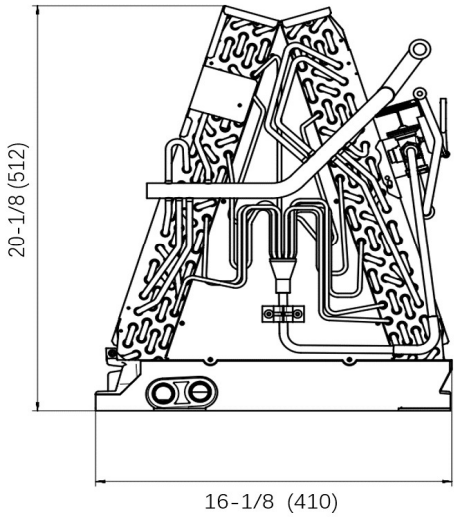
| PERFORMANCE of Cooling | |
|---|---|
| Cooling (Btu/hr) | |
| Rated Capacity | 36,000 |
| Min/Max Capacity | 12,100 ~ 41,000 |
| Moisture Removal(L/h) | 4.91 |
| Standard Operating Range(°F/°C) | -22~122 ( -30 ~ 50) |
| Rated Cooling Conditions: | Indoor: 80°F DB/67°F WB |
| | Outdoor: 95°F DB/75°F WB |

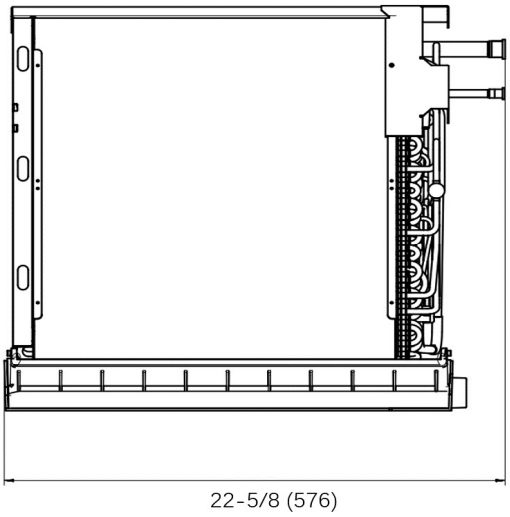
| PERFORMANCE of Heating | |
|---|---|
| Heating (Btu/hr) | |
| 1. @ 47°F Rated | 38,000 |
| 2. @ 47°F Min/Max Capacity | 11,900 ~ 46,000 |
| 3. @ 17°F Rated | 29,200 |
| 4. @ 5°F Rated: Capacity / COP | 36,000/1.9 |
| 5. @ 5°F Max: Capacity | 36,000 |
| Standard Operating Range(°F/°C) | -22~75 ( -30 ~ 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 | Indoor: 70°F DB/60°F WB |
| Operating at Max. Frequency | 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 | 29.0 |
| Outdoor MOP | 30.0 |
| Communication Wiring | AWG 20/2 |
| Compressor RLA | 20.5 |
| Outdoor Fan Motor RLA | 2.4 |
| Outdoor Fan Motor W | / |
| Indoor Fan Motor RLA | / |
| Indoor Fan Motor W | / |
| System Power Input @ Cooling (W) | 3360 ( 1,020 ~ 4,520) |
| System Power Input @ Heating (W) | 3370 ( 820 ~ 4,540) |
| **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) | TXV |
| 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) | 127 ( 3.6) |
| Additional Charge of Refrigerant((oz/ft)/(g/m) | 0.7 ( 65) |
| Connection Method | Flared |

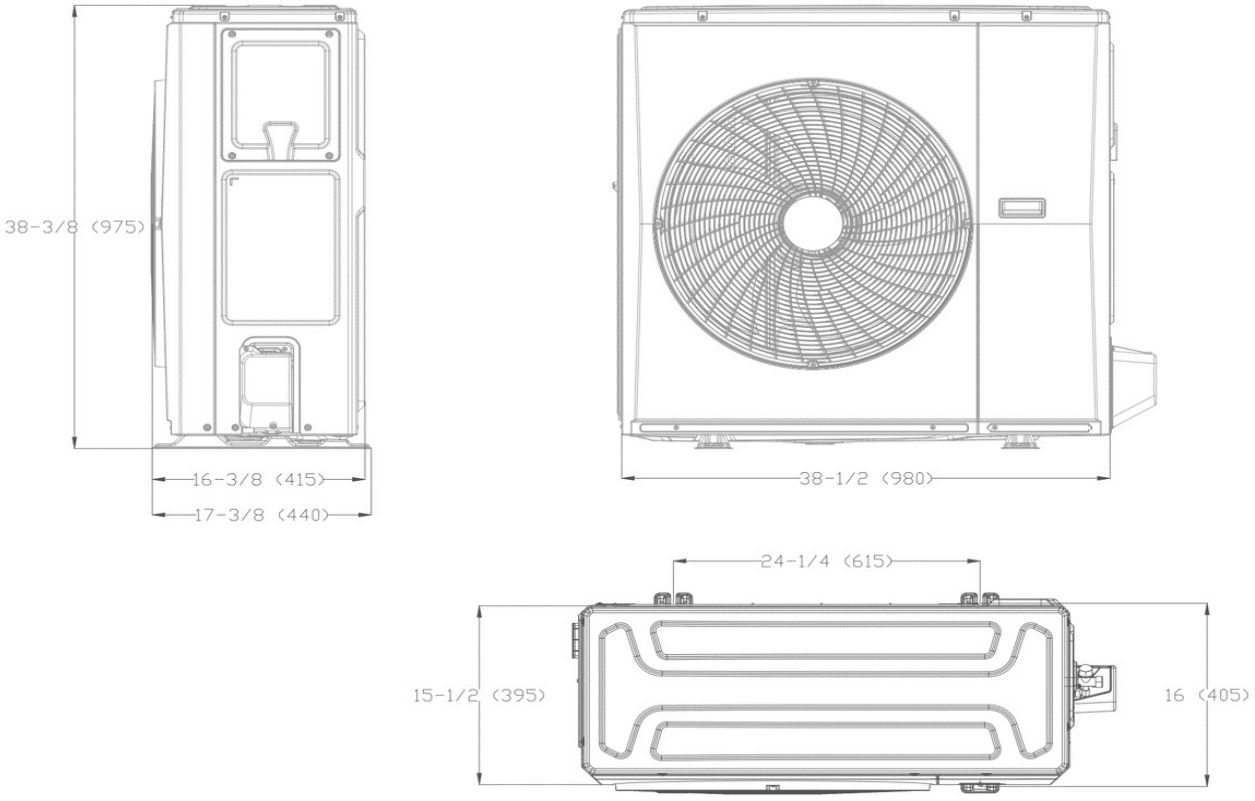
## Indoor Unit Dimension



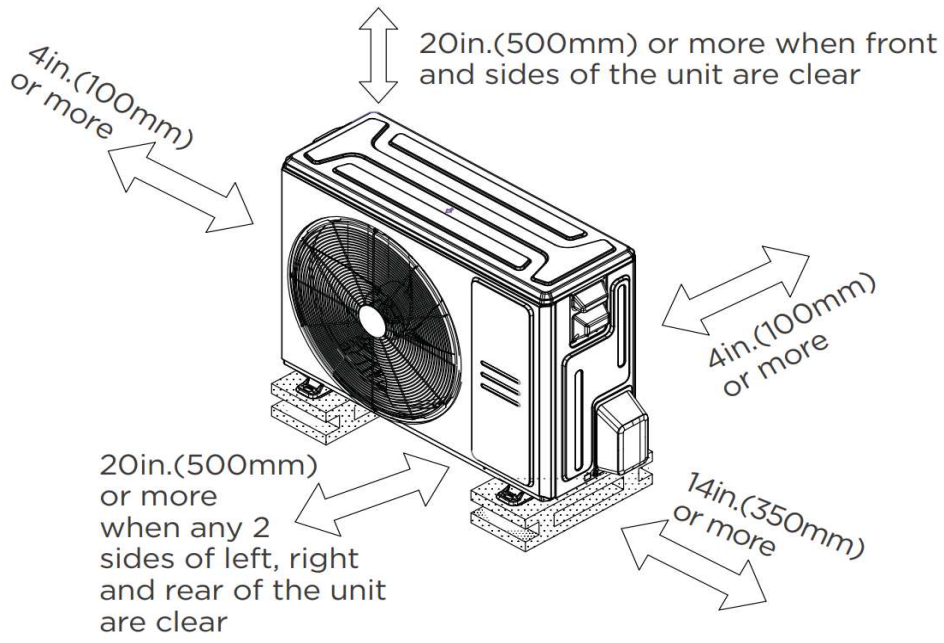



## Outdoor Unit Dimension

Unit:inch(mm)




## Installation Instruction For Outdoor Unit



**Features**

- Aluminum Coil
- Easy Maintenance
- Multiple control options available:
  - Wireless remote controller RG10
  - Two-way communication programmable wired controller with built-in Wi-Fi:120N(X6W) (Built-In)
  - Midea Smart Thermostat: MTL04-1
  - Third-Party 24V Thermostat
- Adaptive Control System
- 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