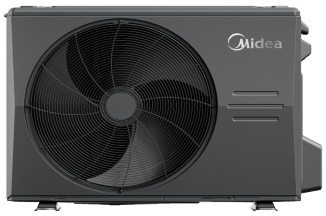
**R454b**
**Refrigerant**

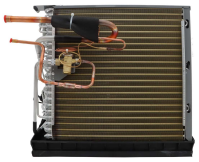
# SUBMITTAL DATA SHEET

Series Name: EVOX Dual-Fuel System (Uncased Coil) Extreme Heat Series
Model Number: MAAHE-H24B-AA-UC/MO1HE-H24B-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** | 13 x 22-5/8 x 16-1/2 |
| | **mm** | 332 x 575 x 420 |
| **Package (W×D×H)** | **inch** | 16-1/8 x 26-1/8 x 22 |
| | **mm** | 410 x 665 x 560 |
| **Net/Gross Weight** | **lbs** | 17.2 / 32.8 |
| | **kg** | 7.8 / 14.9 |

## OUTDOOR SPECIFICATION

| | | |
|---|---|---|
| **Compressor Type** | | TWIN-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 (W×D×H)** | **inch** | 35 x 13-1/2 x 26-1/2 |
| | **mm** | 890 × 342 × 673 |
| **Package (W×D×H)** | **inch** | 39-1/8 x 15-5/8 x 29-1/8 |
| | **mm** | 995 × 398 × 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)** | -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** | 25,000 |
| **2. @ 47°F Min/Max Capacity** | 6,800 ~ 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)** | -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 |

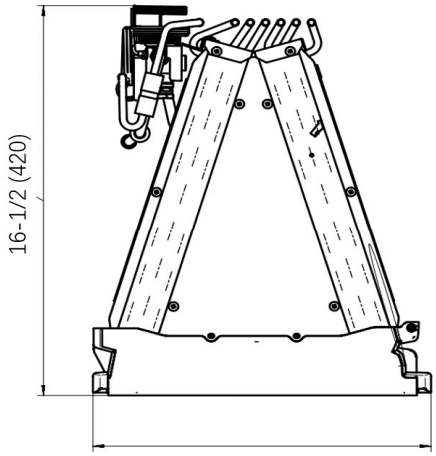
## ELECTRICAL

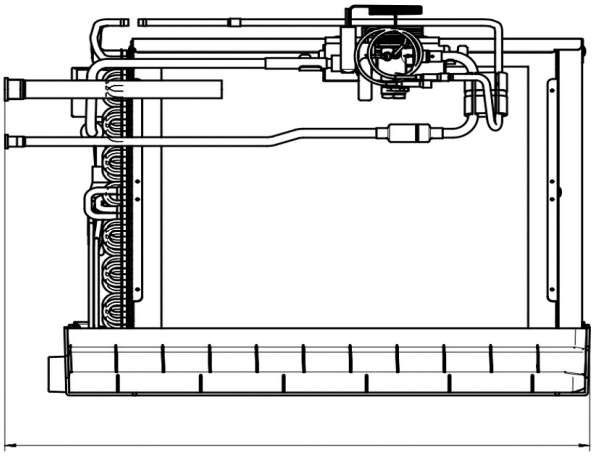
| | |
|---|---|
| **Indoor Power Supply** | 24V,60Hz,1Ph |
| **Indoor MCA 115V/(208/230V)** | / |
| **Indoor MOP** | / |
| **Outdoor Power Supply** | 208/230,60Hz,1Ph |
| **Outdoor MCA** | 19.0 |
| **Outdoor MOP** | 20.0 |
| **Communication Wiring** | AWG 20/2 |
| **Compressor RLA** | 14 |
| **Outdoor 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 ( 600 ~ 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)** | TXV |
| **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 |

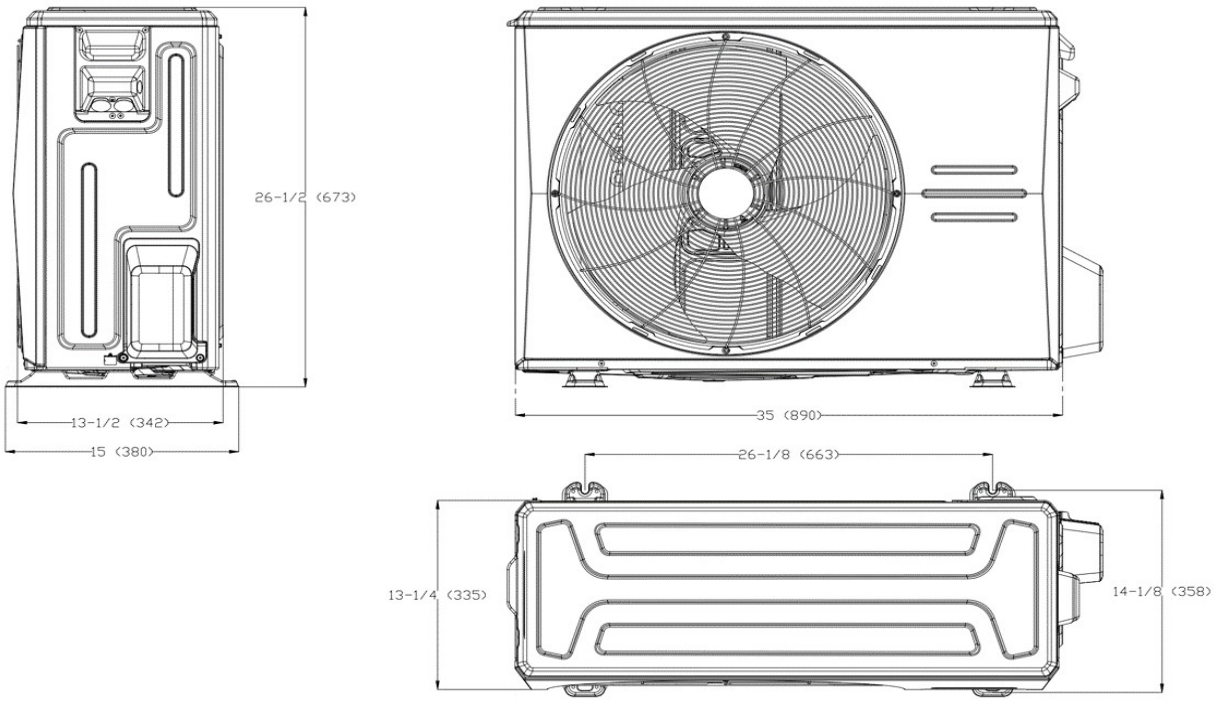
## Indoor Unit Dimension



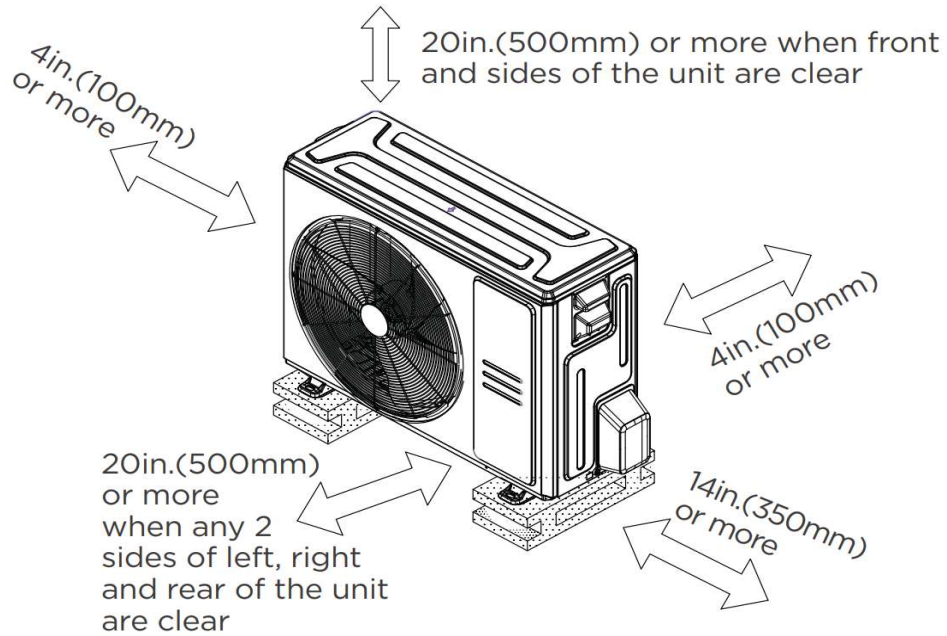



## Outdoor Unit Dimension

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