R454b
Refrigerant

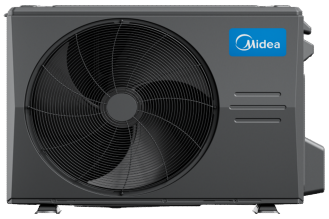
# SUBMITTAL DATA SHEET

Series Name: Xtreme Heat Ceiling-Mounted AHU Series
Model Number: MAPHE-H24B-2A/MO1HE-H24B-2A

Midea

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








| INDOOR SPECIFICATION | | |
|---|---|---|
| ESP(in.W.G) | | 0-0.8 |
| Indoor Air Flow (Turbo/H/M/L/Si) (CFM) | | 824 / 759 / 647 / 630 / 630 |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) | | 56.5 / 56.5 / 53.5 / 51.5 / 51.5 |
| Dimension (W×D×H) | inch | 49-1/8 x 23-3/8 x 10-7/8 |
| | mm | 1248 × 593 × 278 |
| Package (W×D×H) | inch | 53-1/8 x 26-3/4 x 13-5/8 |
| | mm | 1350 × 680 × 345 |
| Net/Gross Weight | lbs | 127.87/138.89 |
| | kg | 58/63 |

| OUTDOOR SPECIFICATION | | |
|---|---|---|
| Compressor Type | | 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) | | 59 |
| 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 | 17.5 | HSPF2-4 | 9.2 |
| EER2 | 10.8 | COP | 3.45 |

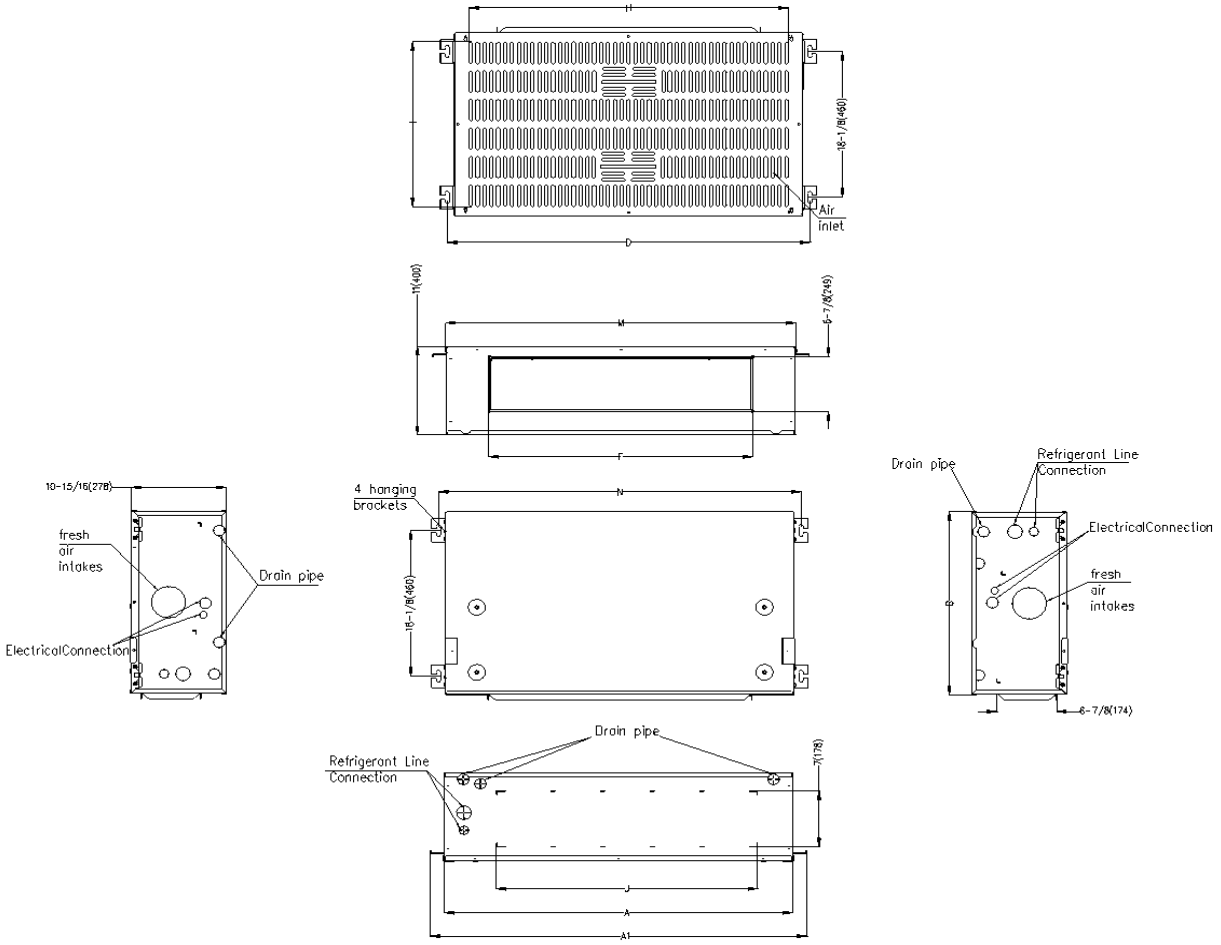
| PERFORMANCE of Cooling | |
|---|---|
| Cooling (Btu/hr) | |
| Rated Capacity | 24,000 |
| Min/Max Capacity | 7,400~27,000 |
| Moisture Removal(L/h) | 1.91 |
| Standard Operating Range(°F/°C) | -22~122(-30 ~ 50) |
| Rated Cooling Conditions: | Indoor: 80°F DB/67°F WB<br>Outdoor: 95°F DB/75°F WB |

| PERFORMANCE of Heating | |
|---|---|
| Heating (Btu/hr) | |
| 1. @ 47°F Rated | 26,000 |
| 2. @ 47°F Min/Max Capacity | 9,200~32,200 |
| 3. @ 17°F Rated | 19,800 |
| 4. @ 5°F Rated: Capacity / COP | 20,000/1.9 |
| 5. @ 5°F Max: Capacity | 20,000 |
| 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 | 115/208/230,60Hz,1Ph |
| Indoor MCA 115V/(208/230V) | 115V:7;208/230V:5 |
| Indoor MOP | 15.0 |
| 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 | 80 |
| Indoor Fan Motor RLA | 115V:5.5;208/230V:3.5 |
| Indoor Fan Motor W | 250 |
| System Power Input @ Cooling (W) | 2,222(700 ~ 2,900) |
| System Power Input @ Heating (W) | 2,209(600 ~2,750) |
| **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) | 74(2.1) |
| Additional Charge of Refrigerant((oz/ft)/(g/m) | 0.7(65) |
| Connection Method | Flared |

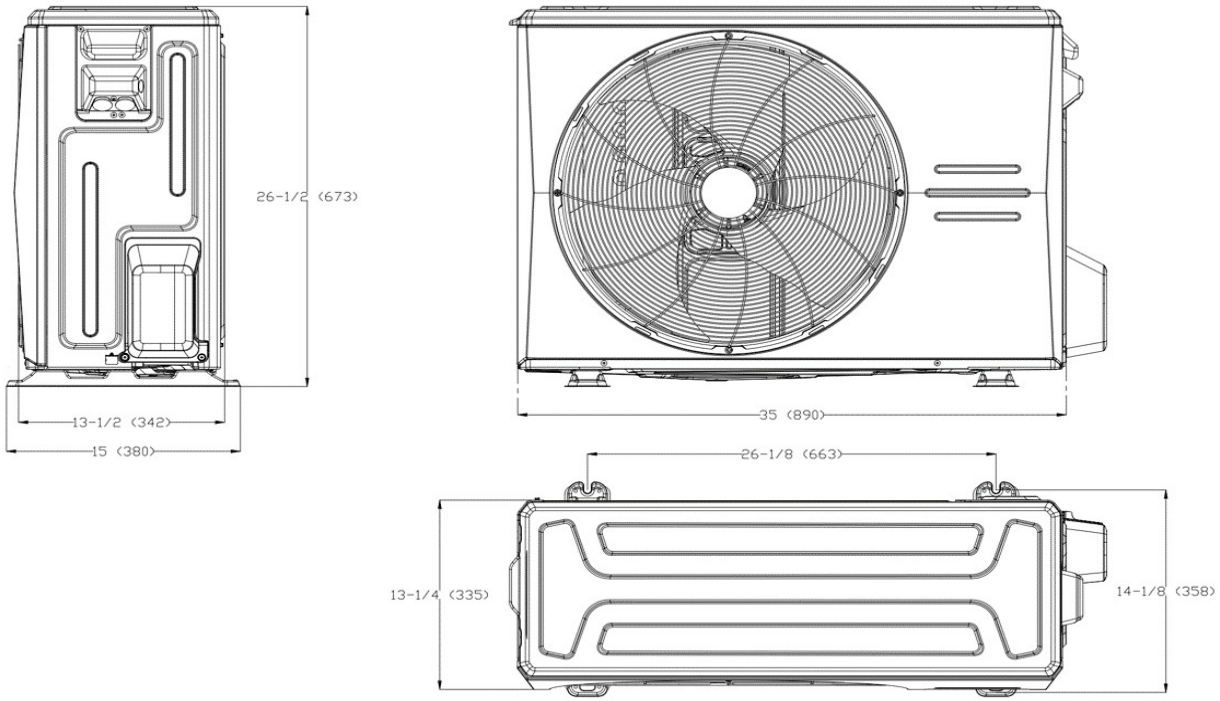
## Indoor Unit Dimension



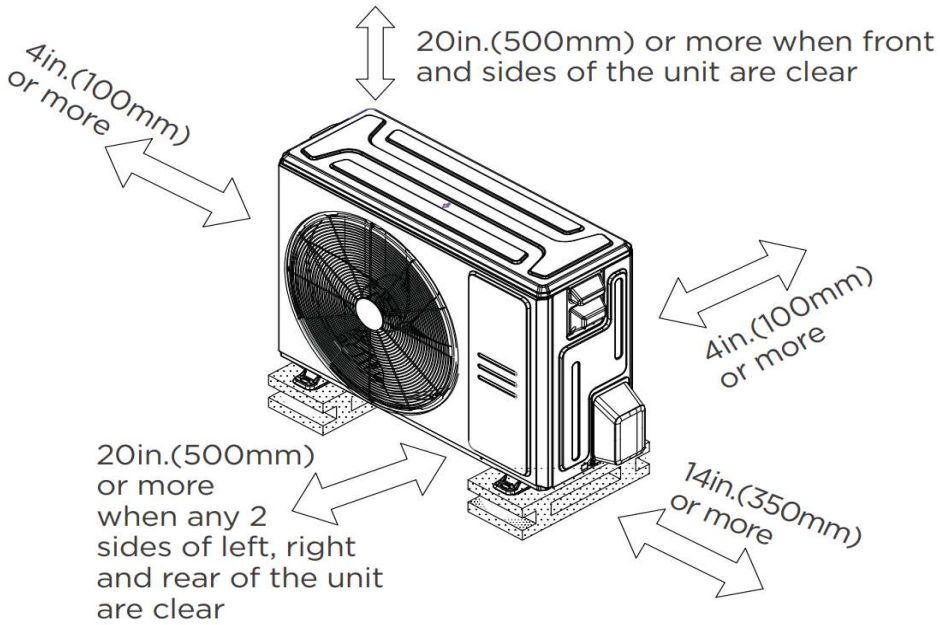

| | 18K | | 24K | | 30K | | 36K | |
|---|---|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm | inch | mm |
| A | 39-15/16 | 1015 | 45-7/8 | 1165 | 51-15/16 | 1320 | 58-7/8 | 1495 |
| A1 | 43-1/4 | 1098 | 49-1/8 | 1248 | 55-1/4 | 1403 | 62-1/8 | 1578 |
| J | 30 | 761 | 35-7/8 | 911 | 41-15/16 | 1066 | 48-7/8 | 1241 |
| D | 41-5/8 | 1057 | 47-1/2 | 1207 | 53-5/8 | 1362 | 60-1/2 | 1537 |
| F | 30-1/4 | 769 | 36-3/16 | 919 | 42-5/16 | 1074 | 49-3/16 | 1249 |
| H | 36-5/8 | 930 | 39-3/4 | 1010 | 47-5/8 | 1210 | 53-15/16 | 1370 |
| M | 40-3/16 | 1020 | 46-1/16 | 1170 | 52-3/16 | 1325 | 59-1/16 | 1500 |
| N | 41-5/8 | 1057 | 40-7/16 | 1027 | 53-5/8 | 1362 | 60 1/2 | 1537 |

## Outdoor Unit Dimension

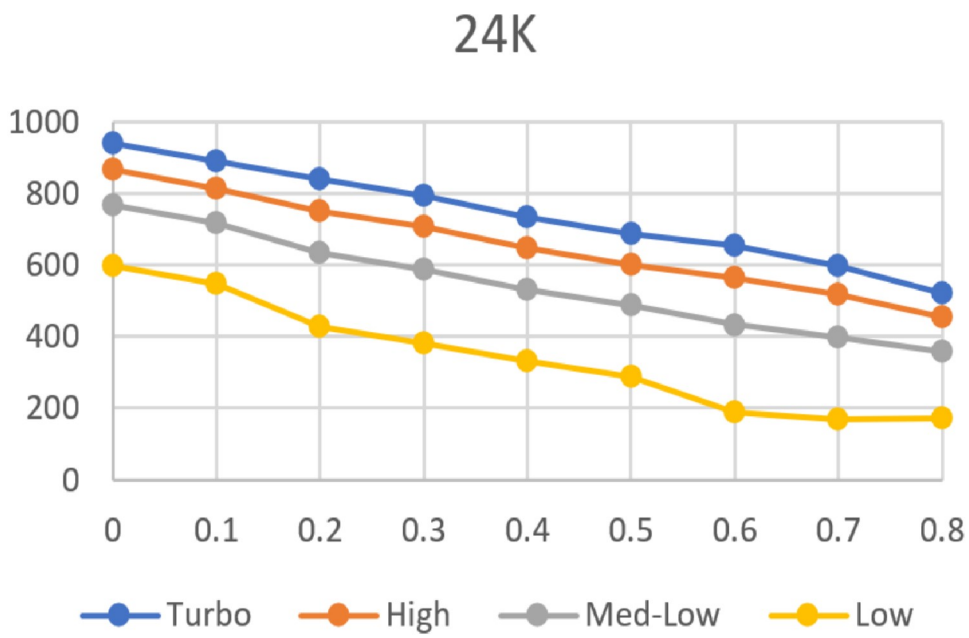
Unit:inch(mm)




## Installation Instruction For Outdoor Unit



## Fan Performance For Indoor Unit




## Features

- Downward or backward (optional) air inlet
- Aluminum Coil
- The IDU supports 115/230V voltage compatibility
- Constant Torque system: Up to 0.80 In.W.C.
- Optional Auxiliary heat kit up to 10kW
- 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 systems with 24V and RS485 communication
- High efficiency up to 17.5 SEER2, 12 EER2,  10.5 HSPF2
- Base pan heater and crankcase heater are equipped as standard