R454b
Refrigerant

# SUBMITTAL DATA SHEET

Series Name: 4-Way Cassette Energy Star Series
Model Number: MCDHU-H24B-2A/MO1ES-H24B-2A

Midea

| 4-Way Cassette Heat Pump System | |
|---|---|
| Location: | Approval: |
| Engineer: | Date: |
| Submitted to: | Construction: |
| Submitted by: | Unit #: |
| Reference: | Drawing #: |




| INDOOR SPEINDOOR SPECIFICATIONCIFICATION | | |
|---|---|---|
| **Indoor Air Flow (Turbo/H/M/L/Si) (CFM)** | | 765 / 706 / 636 / 547 / 547 |
| **Indoor Noise Level (Turbo/H/M/L/Si) (dBA)** | | 46 / 46 / 43 / 34 / 31 |
| **Dimension (W×D×H)** | **inch** | 32-5/8 x 32-5/8 x 8-1/8 |
| | **mm** | 830 × 830 × 205 |
| **Package (W×D×H)** | **inch** | 35-7/8 x 35-7/8 x 9-7/8 |
| | **mm** | 910 × 910 × 250 |
| **Net/Gross Weight** | **lbs** | 47/59 |
| | **kg** | 21.4/26.8 |

| OUTDOOR SPECIFICATION | | |
|---|---|---|
| **Compressor Type** | | ROTARY |
| **Compressor Model** | | KTM240D46UKT2 |
| **Refrigerant** | | R454B |
| **Refrigerant Oil Charge(mL)** | | 620 |
| **Refrigerant Oil** | | VG74 |
| **Outdoor Air Flow (Max) (CFM)** | | 2,237 |
| **Outdoor Noise Level (dBA)** | | 59.5 |
| **Dimension (W×D×H)** | **inch** | 37-1/4 x 16-1/8 x 31-7/8 |
| | **mm** | 946 × 410 × 810 |
| **Package (W×D×H)** | **inch** | 42-7/8 x 19-5/8 x 34-7/8 |
| | **mm** | 1090 × 500 × 885 |
| **Net/Gross Weight** | **lbs** | 122 / 132 |
| | **kg** | 55.4 / 60.0 |

| EFFICIENCY | | | |
|---|---|---|---|
| **Cooling** | | **Heating** | |
| **SEER2** | 22 | **HSPF2-4** | 10.5 |
| **EER2** | 12.0 | **COP** | 3.20 |

| ELECTRICAL | |
|---|---|
| **Power Supply** | 208/230V,60Hz,1Ph |
| **System MCA** | 24.0 |
| **Connection Wiring** | AWG 14/4 |
| **System MOCP** | 25.0 |
| **Compressor RLA** | 15.4 |
| **Outdoor Fan Motor RLA** | 1.0 |
| **Outdoor Fan Motor W** | 120 |
| **Indoor Fan Motor RLA** | 1.0 |
| **Indoor Fan Motor W** | 45 |
| **System Power Input @ Cooling (W)** | 2,000 (910 ~ 2,570) |
| **System Power Input @ Heating (W)** | 2,268 (640 ~2,830) |
| **MCA**: Min. circuit amps (A) | **MOCP**: Max. over current protection (A) |
| **RLA:** Rated load amps (A) | **W:** Fan motor rated output (W) |

| PERFORMANCE of Cooling | |
|---|---|
| **Cooling** (Btu/hr) | |
| **Rated Capacity** | 24,000 |
| **Min/Max Capacity** | 12,300~26,800 |
| **Moisture Removal(L/h)** | 2.56 |
| **Standard Operating Range(°F/℃)** | -13~122 (-25～50) |
| 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 |
| **1. @ 47°F Min/Max Capacity** | 11,600~33,100 |

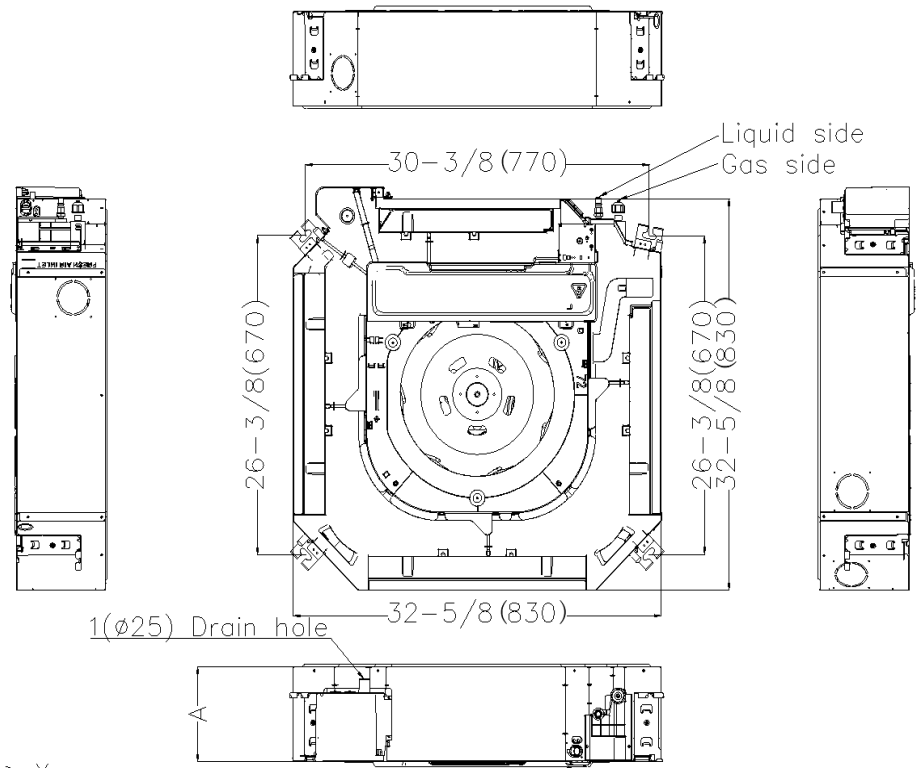
| PIPING | |
|---|---|
| **Throttle type(Indoor)** | N/A |

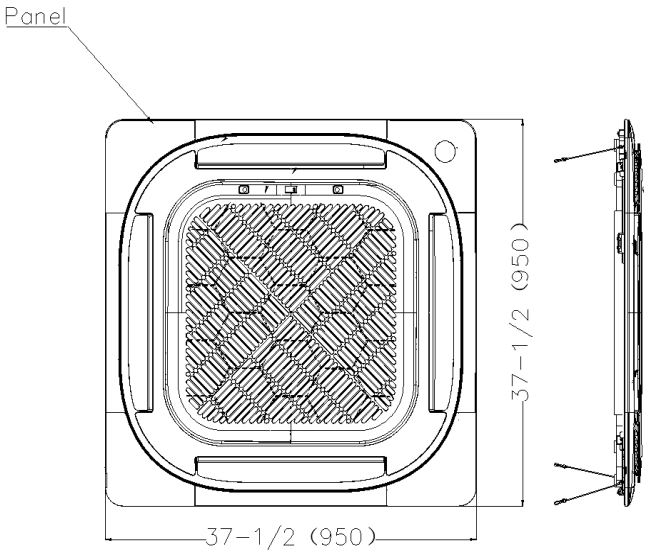
| | |
|---|---|
| **2. @ 17℉ Rated** | 20,400 |
| **3. @ 5℉ Rated: Capacity / COP** | 18,500/2.3 |
| **3. @ 5℉ Max: Capacity** | 18,500 |
| **Standard Operating Range(℉/℃)** | -13~75 (-25～24) |
| 1. Conditions: | Indoor: 70°F DB/60°F WB |
| | Outdoor: 47°F DB/43°F WB |
| 2. Conditions: | Indoor: 70°F DB/60°F WB |
| | Outdoor: 17°F DB/15°F WB |
| 3. Conditions | Indoor: 70°F DB/60°F WB |
| | Outdoor: 5°F DB/5°F WB |

| | |
|---|---|
| **Throttle type(Outdoor)** | EXV+Throttle valve |
| **Liquid Size** | 3/8" (9.52mm) |
| **Gas Size** | 5/8" (15.9mm) |
| **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)** | 71 (2.00) |
| **dditional Charge of Refrigerant((oz/ft)/(g/m** | 0.32 (30) |
| **Connection Method** | Flared |
| | |

## Indoor Unit Dimension

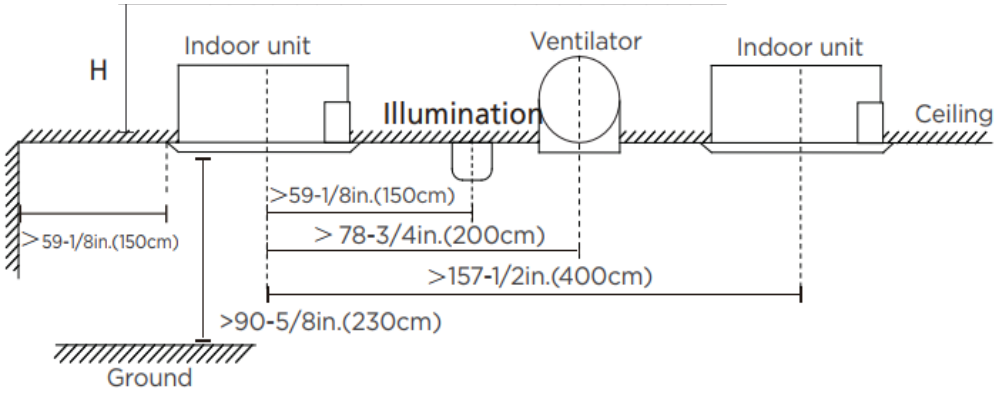
**Unit: inch (mm)**

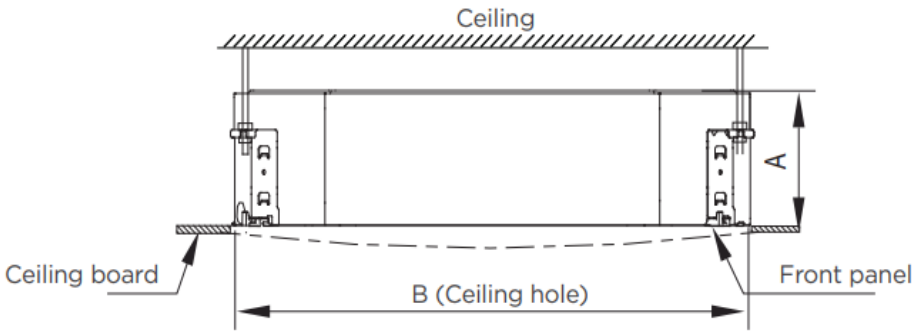



## Installation Instruction





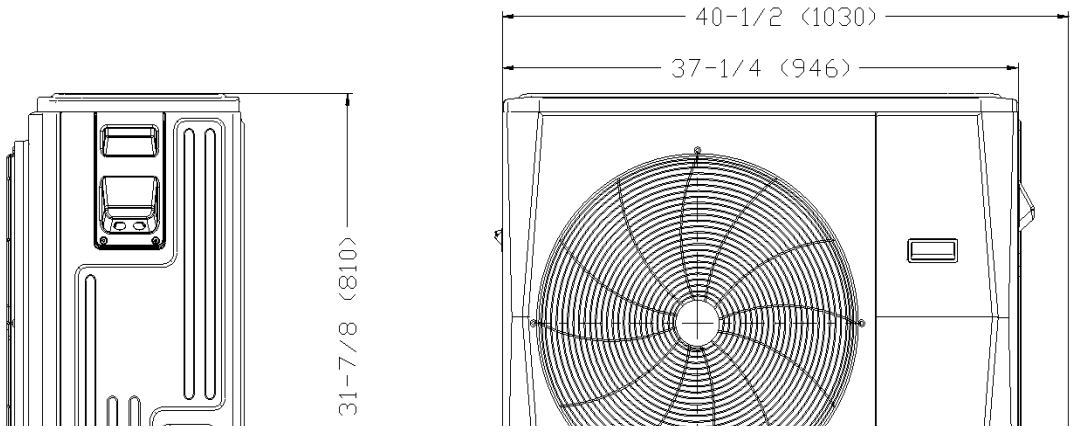



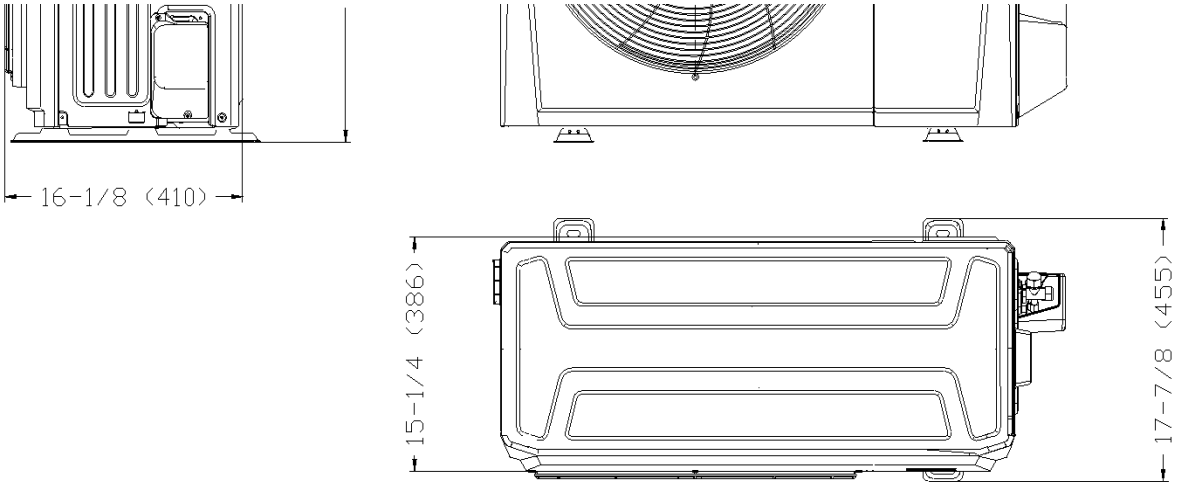

**Distance from ceiling relative to height of indoor unit**

| MODEL | Length of A | Length of H | Length of B |
|---|---|---|---|
| 9K/12K/18K | 9-5/8in.(245mm) | >10-3/4in.(275mm) | 23-5/8in.(600mm) |
| 24K | 8 in.(205mm) | 9 in.(230mm) | 35-3/8 in.(900mm) |
| 36K | 9-5/8 in.(245mm) | 10-3/4 in.(271mm) | |
| 48K | 11-1/4 in.(287mm) | 12-1/4 in.(313mm) | |

## Outdoor Unit Dimension

**Unit: inch (mm)**






## Installation Instruction

