

# SUBMITTAL DATA SHEET



Series Name: Console Energy Star Series  
 Model Number: MFAHU-H16B-2A/MO1ES-H18B-2A

## Console 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)    | 500 / 441 / 383 / 324 / 206  |                         |
| Indoor Noise Level (Turbo/H/M/L/Si) (dBA) | 41.5 / 41.5 / 39 / 28.5 / 24 |                         |
| Dimension (W×D×H)                         | inch                         | 31-1/4 x 7-7/8 x 24-1/2 |
|   | mm                           | 794 x 200 x 621         |
| Package (W×D×H)                           | inch                         | 34 x 11 x 28-1/4        |
|   | mm                           | 865 x 280 x 719         |
| Net/Gross Weight                          | lbs                          | 33 / 42                 |
|   | kg                           | 14.9 / 19.0             |

## OUTDOOR SPECIFICATION

|                              |              |                          |
|------------------------------|--------------|--------------------------|
| Compressor Type              | ROTARY       |                          |
| Compressor Model             | KSN140D58UFZ |                          |
| Refrigerant                  | R454B        |                          |
| Refrigerant Oil Charge(mL)   | 440          |                          |
| Refrigerant Oil              | VG74         |                          |
| Outdoor Air Flow (Max) (CFM) | 1,766        |                          |
| Outdoor Noise Level (dBA)    | 57           |                          |
| Dimension (W×D×H)            | inch         | 35 x 13-1/2 x 26-1/2     |
|                              | mm           | 890 x 342 x 673          |
| Package (W×D×H)              | inch         | 39-1/8 x 15-5/8 x 29-1/8 |
|                              | mm           | 995 x 398 x 740          |
| Net/Gross Weight             | lbs          | 93 / 100                 |
|                              | kg           | 42.0 / 45.5              |

## EFFICIENCY

| Cooling |      | Heating |      |
|---------|------|---------|------|
| SEER2   | 23.8 | HSPF2-4 | 13.5 |
| EER2    | 12.5 | COP     | 3.37 |

## PERFORMANCE of Cooling

| Cooling (Btu/hr)                |   |
|---------------------------------|---|
| Rated Capacity                  | 16,000  |
| Min/Max Capacity                | 4,700~18,000  |
| Moisture Removal(L/h)           | 2.19  |
| Standard Operating Range(*F/°C) | -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                 | 17,000  |
| 1. @ 47°F Min/Max Capacity      | 7,300~22,900  |
| 2. @ 17°F Rated                 | 14,100  |
| 3. @ 5°F Rated: Capacity / COP  | 13,100 / 2.16                                       |
| 3. @ 5°F Max: Capacity          | 13,100  |
| Standard Operating Range(*F/°C) | -13~75 (-25~24)                                     |
| 1. Conditions:                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 47°F DB/43°F WB |
| 2. Conditions:                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 17°F DB/15°F WB |
| 3. Conditions:                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 5°F DB/5°F WB   |

## ELECTRICAL

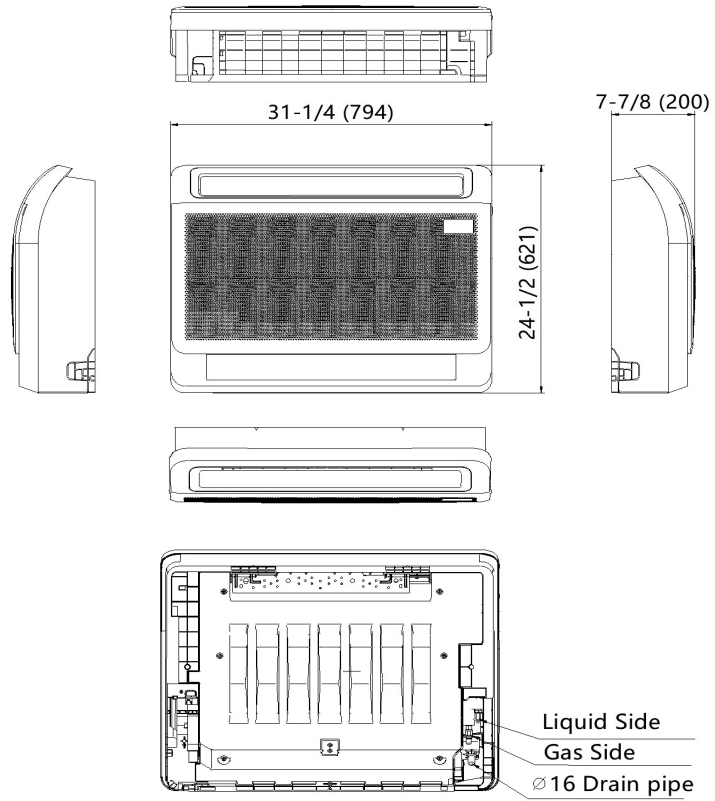
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|----------------------------------|--|--|
| Power Supply                     | 208 / 230 V,60 Hz,1 Ph                 |  |
| System MCA                       | 18.0                                   |  |
| Connection Wiring                | AWG 14/4                               |  |
| System MOCP                      | 20.0                                   |  |
| Compressor RLA                   | 10                                     |  |
| Outdoor Fan Motor RLA            | 0.9                                    |  |
| Outdoor Fan Motor W              | 80                                     |  |
| Indoor Fan Motor RLA             | 1                                      |  |
| Indoor Fan Motor W               | 13                                     |  |
| System Power Input @ Cooling (W) | 1,280 (440~1,600)                      |  |
| System Power Input @ Heating (W) | 1,478 (385~1,830)                      |  |
| MCA: Min. circuit amps (A)       | MOCP: Max. over current protection (A) |  |
| RLA: Rated load amps (A)         | W: Fan motor rated output (W)          |  |

## PIPING

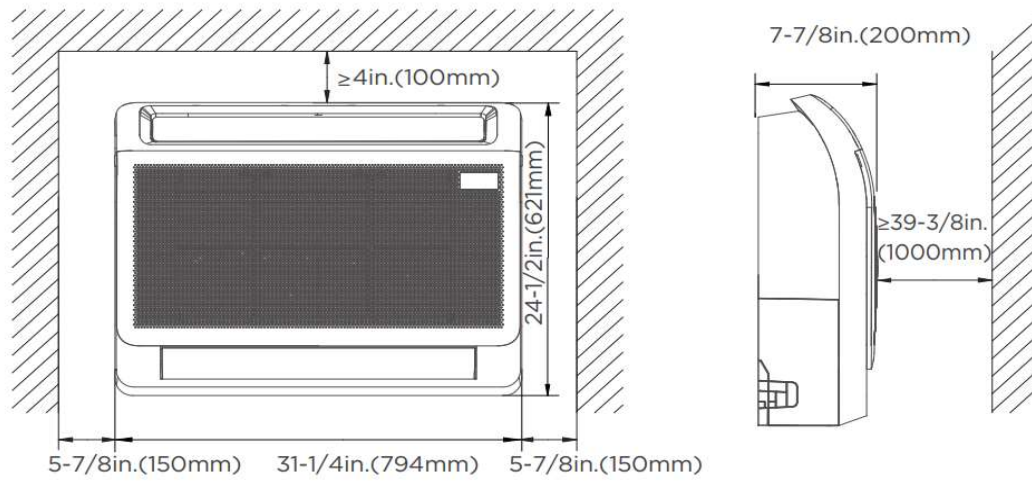
|  |                    |
|--|--------------------|
| Throttle type(Indoor)                          | N/A                |
| Throttle type(Outdoor)                         | EXV+Throttle valve |
| Liquid Size                                    | 1/4" (6.35 mm)     |
| Gas Size                                       | 1/2" (12.7 mm)     |
| Max. Piping Length(ft/m)                       | 98 (30)            |
| Max. Height Difference(ft/m)                   | 66 (20)            |
| Max. Pre-charged Length(ft/m)                  | 25 (7.5)           |
| Refrigerant Pre-charged Amount(oz/kg)          | 48 (1.36)          |
| Additional Charge of Refrigerant((oz/ft)/(g/m) | 0.16 (15)          |
| Connection Method                              | Flared             |

### Indoor Unit Dimension

Unit: inch (mm)

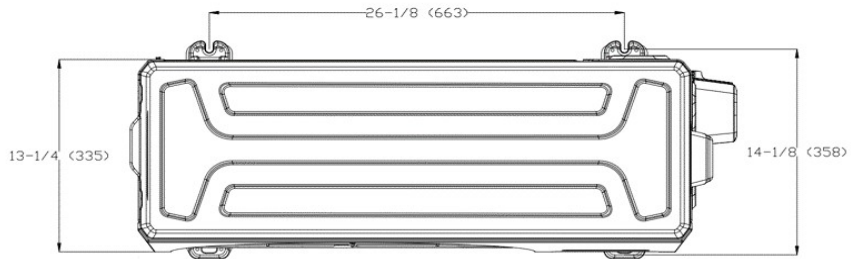
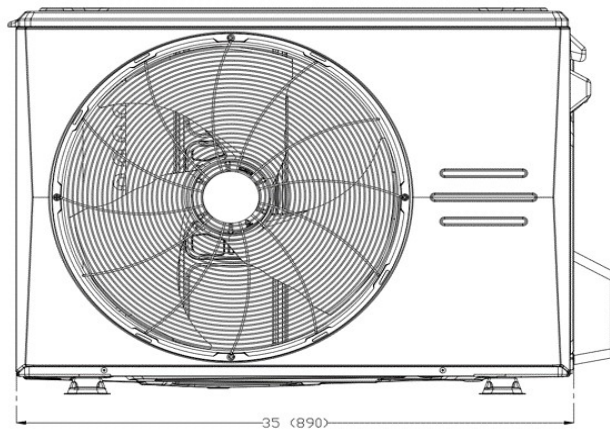
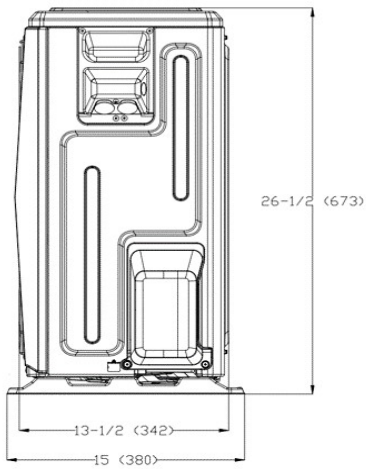


### Installation Instruction

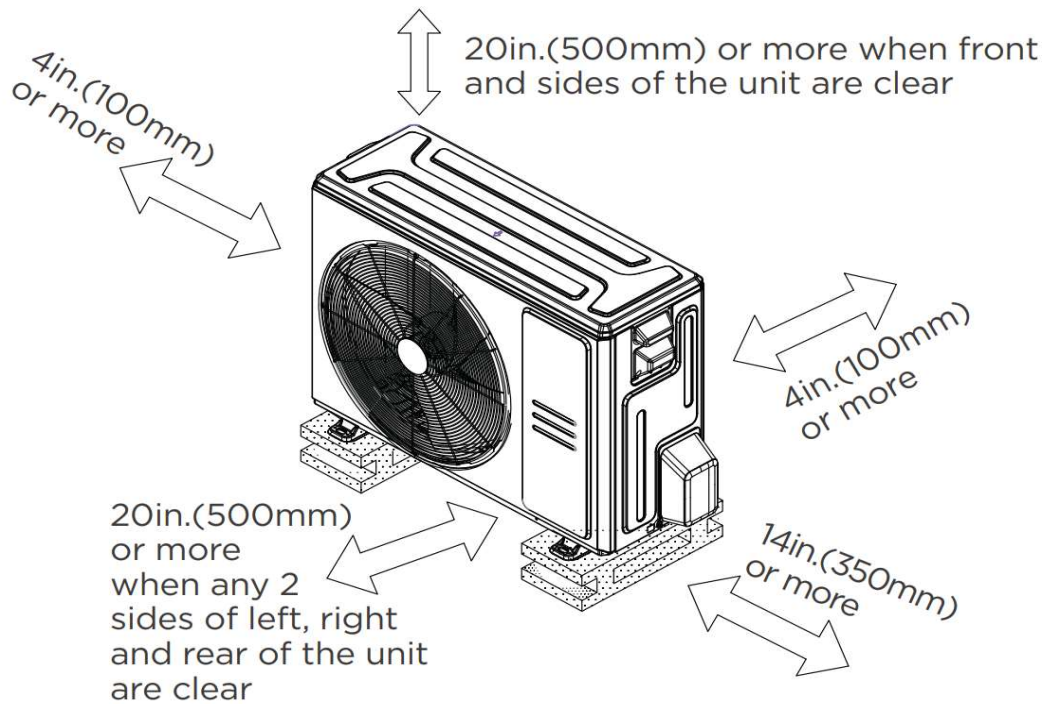


### Outdoor Unit Dimension

Unit: inch (mm)



### Installation Instruction



## FEATURES

- Compact Design
- Dual Air Outlets
- Refrigerant leakage detection sensor
- Humidity sensor
- 1~100% fan speed setting
- WiFi capability: through WiFi dongle or wired controller with built-in Wi-Fi
- OTA(by using WiFi dongle)
- Multiple control options available:
  - Two-way communication wired controller with built-in Wi-Fi:120N(X6W)
  - Wireless remote controller
  - Third-Party 24V Thermostat\*

\*24V interface is required.