

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: Multi Zone Regular Heat Series  
Model Number: **MO3EX-H18B-2A**

### Multi Zone Heat Pump System

|               |               |
|---------------|---------------|
| Location:     | Approval:     |
| Engineer:     | Date:         |
| Submitted to: | Construction: |
| Submitted by: | Unit #:       |
| Reference:    | Drawing #:    |



### OUTDOOR SPECIFICATION

|                                     |               |                            |
|-------------------------------------|---------------|----------------------------|
| <b>Compressor Type</b>              | Twin-ROTARY   |                            |
| <b>Compressor Model</b>             | KTN150D30UFZA |                            |
| <b>Refrigerant</b>                  | R454B         |                            |
| <b>Refrigerant Oil Charge(mL)</b>   | 450           |                            |
| <b>Refrigerant Oil</b>              | V74           |                            |
| <b>Outdoor Air Flow (Max) (CFM)</b> | 1766          |                            |
| <b>Outdoor Noise Level (dBA)</b>    | 59.5          |                            |
| <b>Dimension (WxDxH)</b>            | inch          | 35-1/16 x 13-7/16 x 26-1/2 |
|                                     | mm            | 890 x 342 x 673            |
| <b>Package (WxDxH)</b>              | inch          | 40-9/16 x 17-1/4 x 29-1/2  |
|                                     | mm            | 1030 x 438 x 750           |
| <b>Net/Gross Weight</b>             | lbs           | 101 / 109                  |
|                                     | kg            | 45.6 / 49.6                |

### ELECTRICAL

|   |   |
|---|---|
| <b>Power Supply</b>                     | 208/230V,60Hz,1Ph                             |
| <b>System MCA</b>                       | 16.0  |
| <b>Connection Wiring</b>                | AWG 14/4                                      |
| <b>System MOCP</b>                      | 20.0  |
| <b>Compressor RLA</b>                   | 8.2   |
| <b>Outdoor Fan Motor RLA</b>            | 1   |
| <b>Outdoor Fan Motor W</b>              | 80  |
| <b>Indoor Fan Motor RLA</b>             | /   |
| <b>Indoor Fan Motor W</b>               | /   |
| <b>System Power Input @ Cooling (W)</b> | 1,285 (400~1,900)                             |
| <b>System Power Input @ Heating (W)</b> | 1,465 (350~1,630)                             |
| <b>MCA: Min. circuit amps (A)</b>       | <b>MOCP: Max. over current protection (A)</b> |
| <b>RLA: Rated load amps (A)</b>         | <b>W: Fan motor rated output (W)</b>          |

### EFFICIENCY

| Cooling      |      | Heating        |     |
|--------------|------|----------------|-----|
| <b>SEER2</b> | 25.1 | <b>HSPF2-4</b> | 9.8 |
| <b>EER2</b>  | 14   | <b>COP</b>     | 3.8 |

### PERFORMANCE of Cooling

| Cooling (Btu/hr)                       |   |
|--|---|
| <b>Rated Capacity</b>                  | 18,000  |
| <b>Min/Max Capacity</b>                | 5,400~21,600  |
| <b>Moisture Removal(L/h)</b>           | 0.2   |
| <b>Standard Operating Range(°F/°C)</b> | -13~122 (-25~50)                                    |
| Rated Cooling Conditions:              | Indoor: 80°F DB/67°F WB<br>Outdoor: 95°F DB/75°F WB |

### PERFORMANCE of Heating

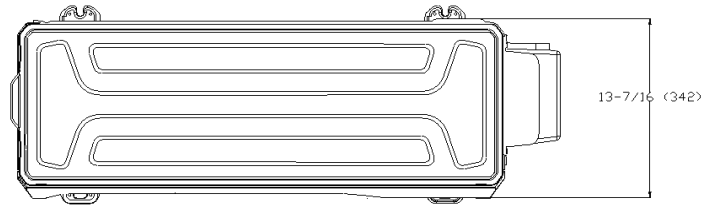
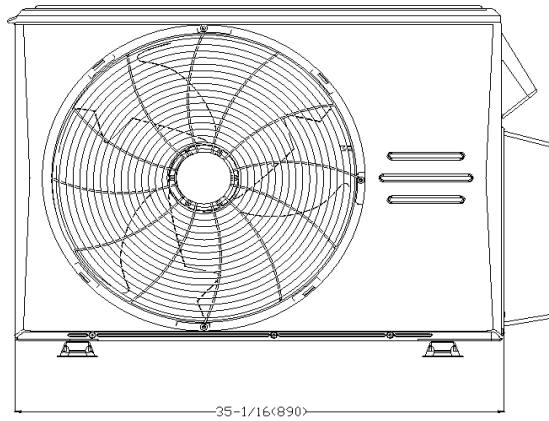
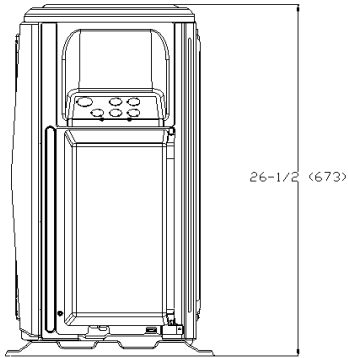
| Heating (Btu/hr)                           |   |
|--|---|
| <b>1. @ 47°F Rated</b>                     | 19,000  |
| <b>1. @ 47°F Min/Max Capacity</b>          | 5,700~21,600  |
| <b>2. @ 17°F Rated(H32)</b>                | 13,600  |
| <b>3. @ 5°F Rated: Capacity / COP(H42)</b> | 13,500 / 2.3  |
| <b>3. @ 5°F Max: Capacity</b>              | 13,500  |
| <b>Standard Operating Range(°F/°C)</b>     | -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   |

### PIPING

|  |                        |
|--|------------------------|
| <b>Liquid Size</b>   | 3 x 1/4" (3 x 6.35 mm) |
| <b>Gas Size</b>  | 3 x 3/8" (3 x 9.52 mm) |
| <b>Max. Piping Length for all rooms(ft/m)</b>                                      | 197 (60)               |
| <b>Max. Piping Length for one IDU(ft/m)</b>  | 98 (30)                |
| <b>ax. Height Difference of IDU and ODU(ft/m)</b>                                  | 49 (15)                |
| <b>Refrigerant Pre-charged Amount(oz/kg)</b>                                       | 62 (1.75)              |
| <b>Refrigerant Precharge Length(ft/m)</b>  | 25 (7.5) x 3           |
| <b>Additional Charge of Refrigerant (Φ6.35 (1/4") liquid pipe) ((oz/ft)/(g/m))</b> | 0.16 (15)              |
| <b>Additional Charge of Refrigerant (Φ9.52 (3/8") liquid pipe) ((oz/ft)/(g/m))</b> | 0.32 (30)              |
| <b>Connection Method</b>   | Flared                 |

Outdoor Unit Dimension

Unit: inch (mm)



Installation Instruction

