

# R454b Refrigerant

# SUBMITTAL DATA SHEET



Series Name: Multi Zone Regular Heat Series  
Model Number: MO6EX-H48B-2A

## Multi Zone Heat Pump System

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



## OUTDOOR SPECIFICATION

|                              |             |                           |
|------------------------------|-------------|---------------------------|
| Compressor Type              | ROTARY      |                           |
| Compressor Model             | KTQ420D1UMU |                           |
| Refrigerant                  | R454B       |                           |
| Refrigerant Oil Charge(mL)   | 1400        |                           |
| Refrigerant Oil              | V74         |                           |
| Outdoor Air Flow (Max) (CFM) | 4503        |                           |
| Outdoor Noise Level (dBA)    | 63          |                           |
| Dimension (W×D×H)            | inch        | 37-1/2 x 16-5/16 x 52-1/2 |
|                              | mm          | 952 x 415 x 1333          |
| Package (W×D×H)              | inch        | 43-1/8 x 19-1/2 x 58-1/4  |
|                              | mm          | 1095 x 495 x 1480         |
| Net/Gross Weight             | lbs         | 222 / 254                 |
|                              | kg          | 100.7 / 115.3             |

## ELECTRICAL

|                                  |                                        |
|----------------------------------|----------------------------------------|
| Power Supply                     | 208/230V,60Hz,1Ph                      |
| System MCA                       | 34.0                                   |
| Connection Wiring                | AWG 14/4                               |
| System MOCP                      | 40.0                                   |
| Compressor RLA                   | 24                                     |
| Outdoor Fan Motor RLA            | 2.5                                    |
| Outdoor Fan Motor W              | 85                                     |
| Indoor Fan Motor RLA             | /                                      |
| Indoor Fan Motor W               | /                                      |
| System Power Input @ Cooling (W) | 3,764 (800~5,800)                      |
| System Power Input @ Heating (W) | 3,702 (800~5,200)                      |
| MCA: Min. circuit amps (A)       | MOCP: Max. over current protection (A) |
| RLA: Rated load amps (A)         | W: Fan motor rated output (W)          |

## EFFICIENCY

| Cooling |      | Heating |      |
|---------|------|---------|------|
| SEER2   | 24.0 | HSPF2-4 | 10.3 |
| EER2    | 12.5 | COP     | 3.8  |

## PERFORMANCE of Cooling

| Cooling (Btu/hr)                |                                                     |
|---------------------------------|-----------------------------------------------------|
| Rated Capacity                  | 47,000                                              |
| Min/Max Capacity                | 12,000~55,000                                       |
| Moisture Removal(L/h)           | 3.3                                                 |
| Standard Operating Range(°F/°C) | -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)           |               |
|----------------------------|---------------|
| 1. @ 47°F Rated            | 48,000        |
| 1. @ 47°F Min/Max Capacity | 13,000~53,000 |

## PIPING

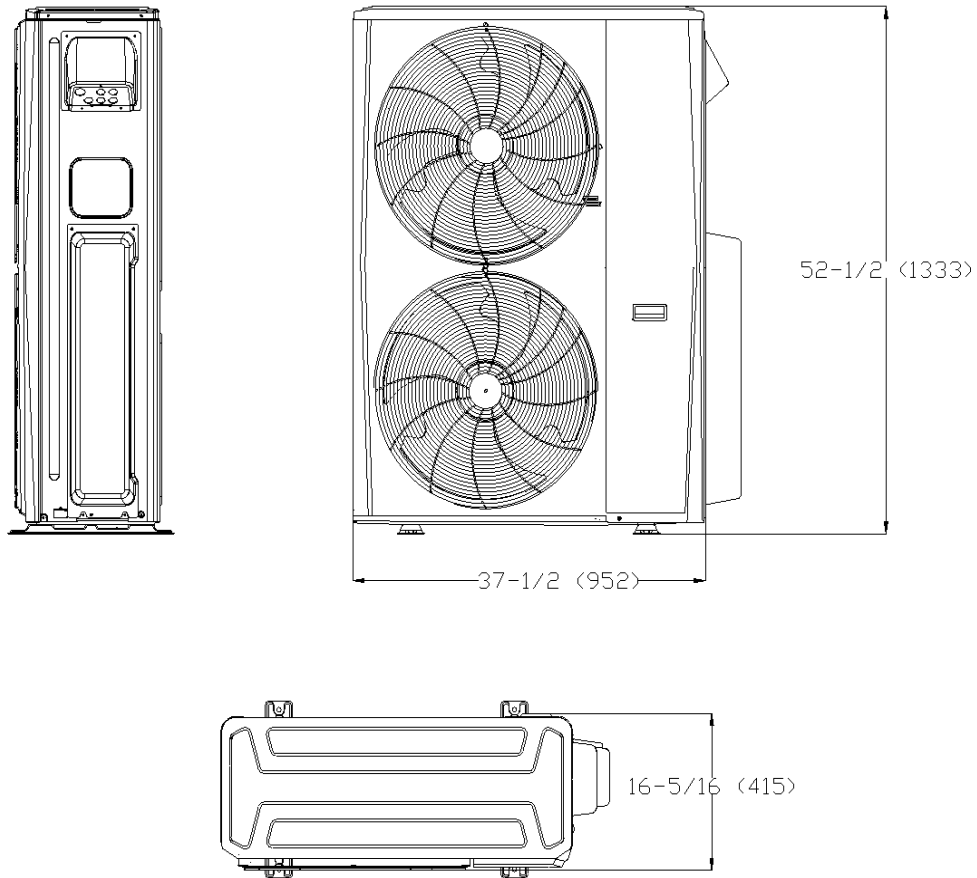
|                                                                             |                                              |
|-----------------------------------------------------------------------------|----------------------------------------------|
| Liquid Size                                                                 | 6 x 1/4" (6 x 6.35 mm)                       |
| Gas Size                                                                    | 4 x 3/8" +2 x 1/2" (4 x 9.52 mm+2 x 12.7 mm) |
| Max. Piping Length for all rooms(ft/m)                                      | 262 (80)                                     |
| Max. Piping Length for one IDU(ft/m)                                        | 115 (35)                                     |
| Max. Height Difference of IDU and ODU(ft/m)                                 | 49 (15)                                      |
| Refrigerant Pre-charged Amount(oz/kg)                                       | 148 (4.2)                                    |
| Refrigerant Precharge Length(ft/m)                                          | 25 (7.5) x 6                                 |
| Additional Charge of Refrigerant (Φ6.35 (1/4") liquid pipe) ((oz/ft)/(g/m)) | 0.16 (15)                                    |
| Additional Charge of Refrigerant (Φ9.52 (3/8") liquid pipe) ((oz/ft)/(g/m)) | 0.32 (30)                                    |

|                                     |                                                     |
|-------------------------------------|-----------------------------------------------------|
| 2. @ 17°F Rated(H32)                | 38,000                                              |
| 3. @ 5°F Rated: Capacity / COP(H42) | 36,000 / 2                                          |
| 3. @ 5°F Max: Capacity              | 36,000                                              |
| 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   |

|                   |        |
|-------------------|--------|
| Connection Method | Flared |
|-------------------|--------|

### Outdoor Unit Dimension

Unit: inch (mm)



### Installation Instruction

