

# SUBMITTAL DATA SHEET

## 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>             |             | EKPQ440D1UMUB         |
| <b>Refrigerant</b>                  |             | R454B                 |
| <b>Refrigerant Oil Charge(mL)</b>   |             | 1300                  |
| <b>Refrigerant Oil</b>              |             | VG75                  |
| <b>Outdoor Air Flow (Max) (CFM)</b> |             | 4503                  |
| <b>Outdoor Noise Level (dBA)</b>    |             | 65                    |
| <b>Dimension (W×D×H)</b>            | <b>inch</b> | 37.48 x 16.34 x 52.48 |
|                                     | <b>mm</b>   | 952×415×1333          |
| <b>Package (W×D×H)</b>              | <b>inch</b> | 43.11 x 19.49 x 58.27 |
|                                     | <b>mm</b>   | 1095×495×1480         |
| <b>Net/Gross Weight</b>             | <b>lbs</b>  | 246.47/276.68         |
|                                     | <b>kg</b>   | 111.8/125.5           |

### ELECTRICAL

|   |   |
|---|---|
| <b>Power Supply</b>                     | 208/230V,60Hz,1Ph                             |
| <b>System MCA</b>                       | 43  |
| <b>Connection Wiring</b>                | AWG 14-4                                      |
| <b>System MOCP</b>                      | 45  |
| <b>Compressor RLA</b>                   | 27  |
| <b>Outdoor Fan Motor RLA</b>            | 2.5   |
| <b>Outdoor Fan Motor W</b>              | 85  |
| <b>Indoor Fan Motor RLA</b>             | /   |
| <b>Indoor Fan Motor W</b>               | /   |
| <b>System Power Input @ Cooling (W)</b> | 3917/(800 ~ 5400)                             |
| <b>System Power Input @ Heating (W)</b> | 3881/(800 ~5200)                              |
| <b>MCA:</b> Min. circuit amps (A)       | <b>MOCP:</b> Max. over current protection (A) |
| <b>RLA:</b> Rated load amps (A)         | <b>W:</b> Fan motor rated output (W)          |

### EFFICIENCY

| Cooling      |      | Heating        |      |
|--------------|------|----------------|------|
| <b>SEER2</b> | 23.0 | <b>HSPF2-4</b> | 11.0 |
| <b>EER2</b>  | 12   | <b>COP</b>     | 3.7  |

### PERFORMANCE of Cooling

| Cooling (Btu/hr)                       |   |
|--|---|
| <b>Rated Capacity</b>                  | 47000   |
| <b>Min/Max Capacity</b>                | 12000~57000   |
| <b>Moisture Removal(L/h)</b>           | 4.4   |
| <b>Standard Operating Range(°F/°C)</b> | -22~122/(-30~50)                                    |
| <b>Rated Cooling Conditions:</b>       | Indoor: 80°F DB/67°F WB<br>Outdoor: 95°F DB/75°F WB |

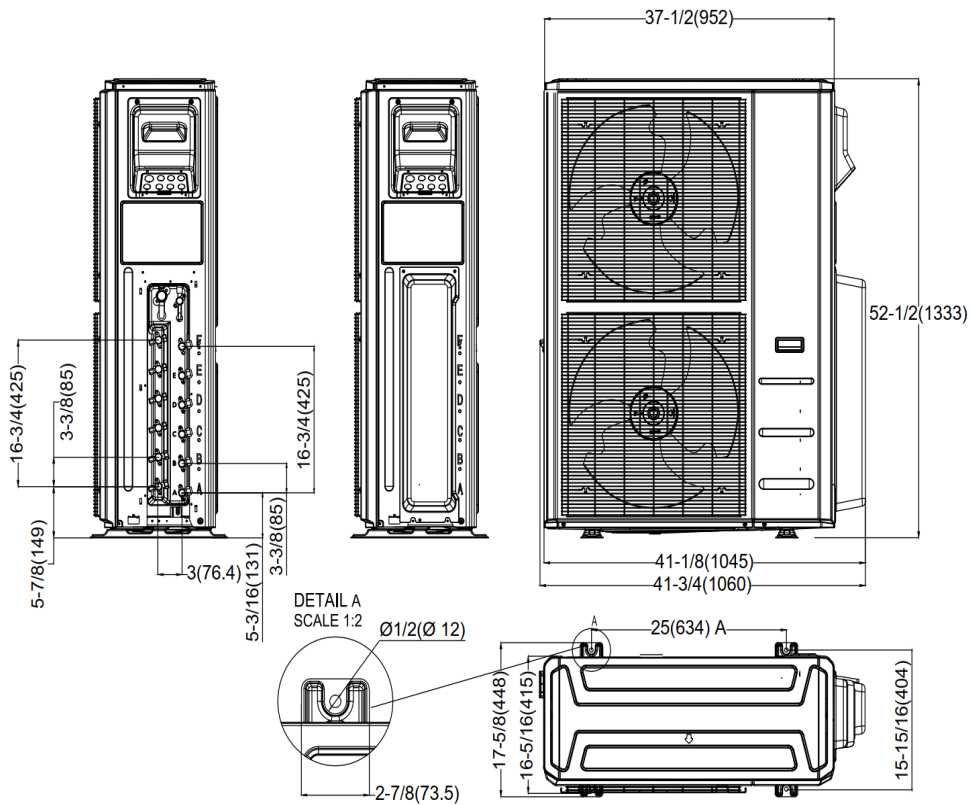
### PERFORMANCE of Heating

| Heating (Btu/hr)                           |   |
|--|---|
| <b>1. @ 47°F Rated</b>                     | 49000   |
| <b>1. @ 47°F Min/Max Capacity</b>          | 13000~57000   |
| <b>2. @ 17°F Rated(H32)</b>                | 44000   |
| <b>3. @ 5°F Rated: Capacity / COP(H42)</b> | 47000/2   |
| <b>3. @ 5°F Max: Capacity</b>              | 47000   |
| <b>Standard Operating Range(°F/°C)</b>     | -22~75/(-30~24)                                     |
| <b>1. Conditions:</b>                      | Indoor: 70°F DB/60°F WB<br>Outdoor: 47°F DB/43°F WB |
| <b>2. Conditions:</b>                      | Indoor: 70°F DB/60°F WB<br>Outdoor: 17°F DB/15°F WB |
| <b>3. Conditions</b>                       | Indoor: 70°F DB/60°F WB<br>Outdoor: 5°F DB/5°F WB   |

### PIPING

|  |                                    |
|--|------------------------------------|
| <b>Liquid Size</b>   | 6x6.35mm(6x1/4in)                  |
| <b>Gas Size</b>  | 4x9.52mm+2x12.7mm(4x3/8in+2x1/2in) |
| <b>Max. Piping Length for all rooms(ft/m)</b>                                      | 262.4/(80)                         |
| <b>Max. Piping Length for one IDU(ft/m)</b>  | 114.8/(35)                         |
| <b>Max. Height Difference of IDU and ODU(ft/m)</b>                                 | 49.2/(15)                          |
| <b>Refrigerant Pre-charged Amount(oz/kg)</b>                                       | 151.68/(4.3)                       |
| <b>Refrigerant Precharge Length(ft/m)</b>  | 24.6(7.5)x6                        |
| <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



Installation Instruction

