

R454b
Refrigerant

SUBMITTAL DATA SHEET

Air Handler Heat Pump System

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



INDOOR SPECIFICATION

| | | |
|-------------------|------|--------------------------|
| Dimension (WxDxH) | inch | 21-5/8 x 21-1/2 x 27-3/4 |
| | mm | 549 x 546 x 706 |
| Package (WxDxH) | inch | 31-1/8 x 25 x 25-5/8 |
| | mm | 790 x 635 x 650 |
| Net/Gross Weight | lbs | 97 / 115 |
| | kg | 43.9 / 52.2 |

OUTDOOR SPECIFICATION

| | | |
|------------------------------|---------------|-----------------------------|
| Compressor Type | ROTARY | |
| Compressor Model | MTH550UKPC8FU | |
| Refrigerant | R454B | |
| Refrigerant Oil Charge(mL) | 1800 | |
| Refrigerant Oil | HAF68D1C | |
| Outdoor Air Flow (Max) (CFM) | 3,037 | |
| Outdoor Noise Level (dBA) | 65 | |
| Dimension (WxDxH) | inch | 38-9/16 x 16-3/8 x 38-3/8 |
| | mm | 980 x 415 x 975 |
| Package (WxDxH) | inch | 45-1/16 x 19-11/16 x 42-1/2 |
| | mm | 1145 x 500 x 1080 |
| Net/Gross Weight | lbs | 193 /224 |
| | kg | 87.5 / 101.7 |

EFFICIENCY

| Cooling | | Heating | |
|---------|------|---------|------|
| SEER2 | 14.9 | HSPF2-4 | 8.1 |
| EER2 | 8.5 | COP | 2.68 |

PERFORMANCE of Cooling

| Cooling (Btu/hr) | |
|---------------------------------|---|
| Rated Capacity | 51,000 |
| Min/Max Capacity | 15,500~51,000 |
| Moisture Removal(L/h) | 4 |
| Standard Operating Range(°F/°C) | -13~122 (-25~50) |
| Rated Cooling Conditions: | Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB |

PERFORMANCE of Heating

| Heating (Btu/hr) | |
|---|---|
| 1. @ 47°F Rated | 49,000 |
| 2. @ 47°F Min/Max Capacity | 10,600~50,000 |
| 3. @ 17°F Rated | 31,000 |
| 4. @ 5°F Rated: Capacity / COP | 41,000/1.75 |
| 5. @ 5°F Max: Capacity | 40,000 |
| Standard Operating Range(°F/°C) | -13~75 (-25~24) |
| 1. Rated Heating Conditions: | Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB |
| 2. Rated Heating Conditions: | Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB |
| 3. Heating Conditions, Compressor Operating at Max. Frequency | Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB |

ELECTRICAL

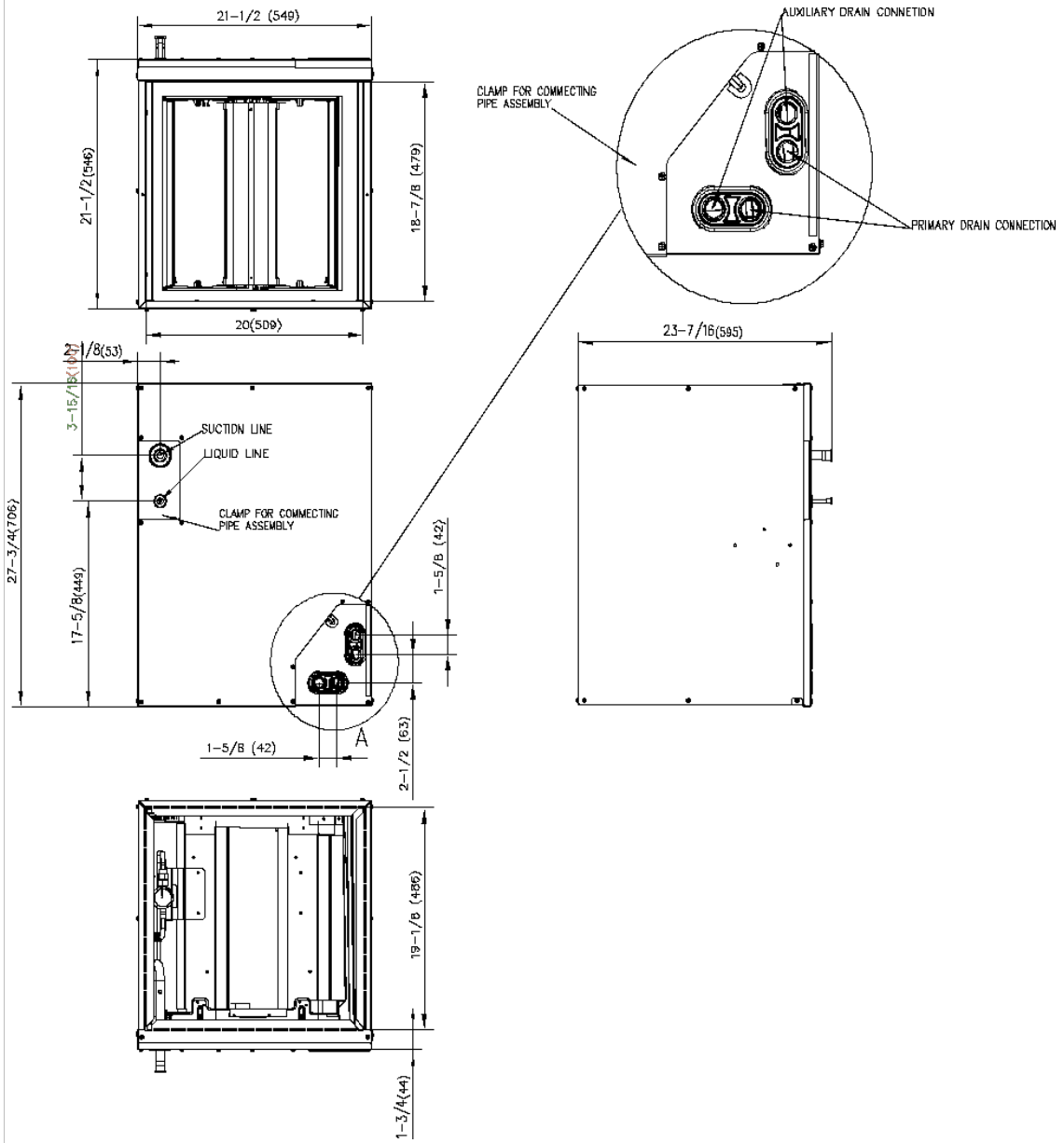
| | |
|----------------------------------|---|
| Indoor Power Supply | 24V,60Hz,1Ph |
| Indoor MCA 115V/(208/230V) | / |
| Indoor MOP | / |
| Outdoor Power Supply | 208/230,60Hz,1Ph |
| Outdoor MCA | 39.0 |
| Outdoor MOP | 40.0 |
| Communication Wiring | AWG 20-2 |
| Compressor RLA | 30 |
| Outdoor Fan Motor RLA | 1.2 |
| Outdoor Fan Motor W | 250 |
| Indoor Fan Motor RLA | / |
| Indoor Fan Motor W | / |
| System Power Input @ Cooling (W) | 6,000 (1,430~6,100) |
| System Power Input @ Heating (W) | 5,360 (1,210~5,190) |
| MCA: Min. circuit amps (A) | MOCOP: Max. over current protection (A) |
| RLA: Rated load amps (A) | W: Fan motor rated output (W) |

PIPING

| | |
|---|---------------|
| Throttle type(Indoor) | EXV |
| Throttle type(Outdoor) | EXV |
| Liquid Size | 3/8" (9.52mm) |
| Gas Size | 3/4" (19mm) |
| Max. Piping Length(ft/m) | 246 (75) |
| Max. Height Difference(ft/m) | 98.4 (30) |
| Max. Pre-charged Length(ft/m) | 25 (7.5) |
| Refrigerant Pre-charged Amount(oz/kg) | 134 (3.8) |
| Additional Charge of Refrigerant((oz/ft)/(g/m)) | 0.7 (65) |
| Connection Method | Flared |

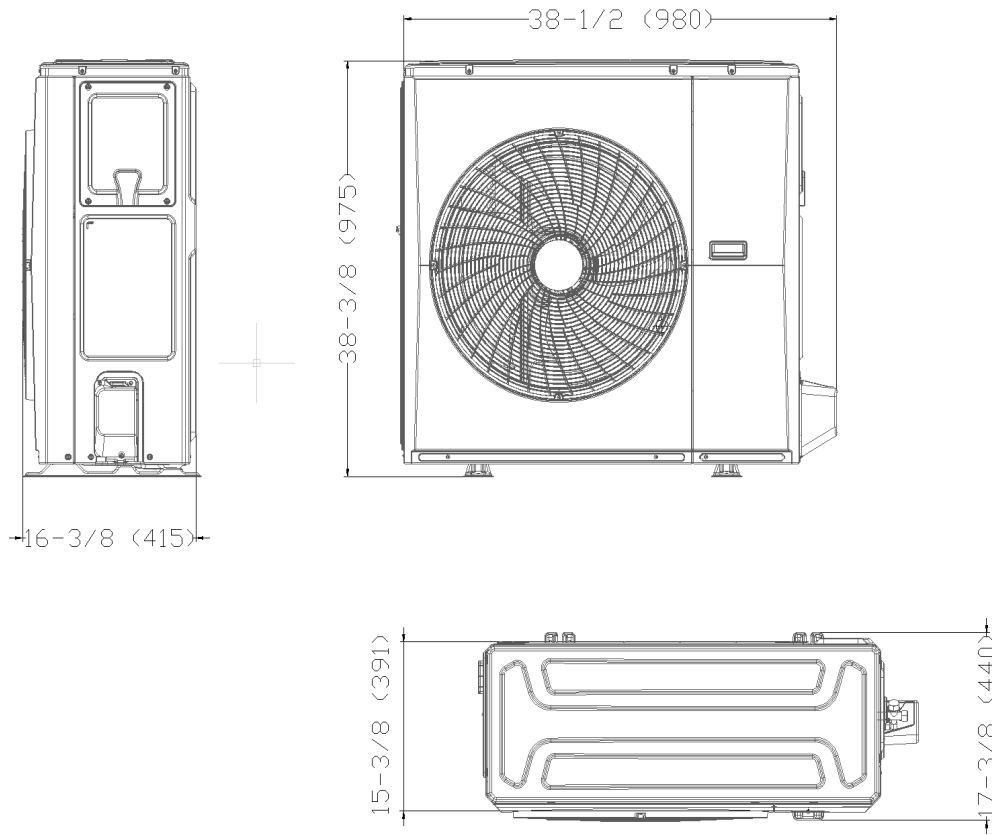
Indoor Unit Dimension

Unit:inch(mm)

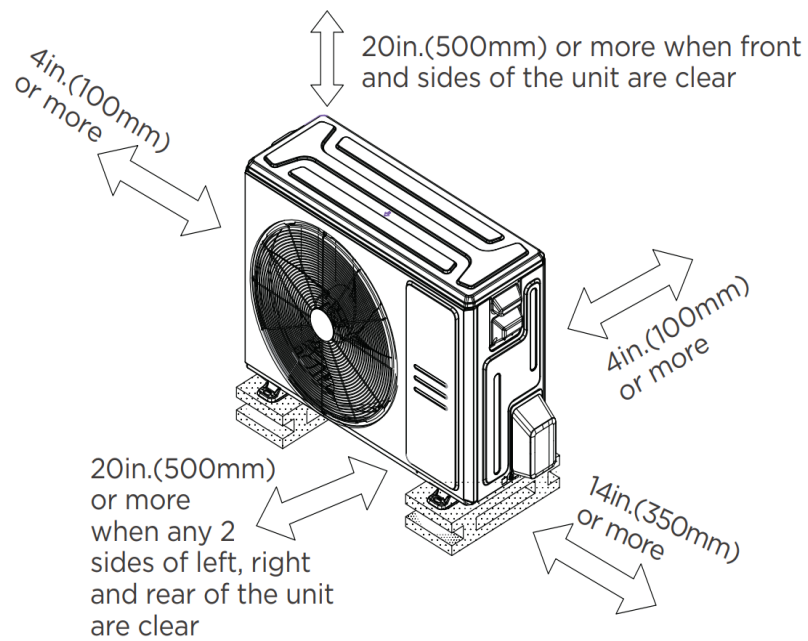


Outdoor Unit Dimension

Unit:inch(mm)



Installation Instruction For Outdoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- R454B refrigerant sensor
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Third-Party 24V Thermostat