

# SUBMITTAL DATA SHEET

Series Name: Hyper Heat Acoil Series  
Model Number: WDCA-30/36C

## Air Handler Heat Pump System

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



## INDOOR SPECIFICATION

|                   |      |                          |
|-------------------|------|--------------------------|
| Dimension (W×D×H) | inch | 21 x 21 x 24             |
|                   | mm   | 534 x 533 x 611          |
| Package (W×D×H)   | inch | 20-1/2 x 26-1/8 x 26-3/8 |
|                   | mm   | 610 x 665 x 685          |
| Net/Gross Weight  | lbs  | 64 / 74                  |
|                   | kg   | 29.2 / 33.6              |

## OUTDOOR SPECIFICATION

|                              |      |                          |
|------------------------------|------|--------------------------|
| Compressor Type              |      | ROTARY                   |
| Compressor Model             |      | MTH356UKRC8FQL           |
| Refrigerant                  |      | R454B                    |
| Refrigerant Oil Charge(mL)   |      | 1300                     |
| Refrigerant Oil              |      | HAF68D1A                 |
| Outdoor Air Flow (Max) (CFM) |      | 3,002                    |
| Outdoor Noise Level (dBA)    |      | 64                       |
| Dimension (W×D×H)            | inch | 37-1/4 x 16-1/8 x 31-7/8 |
|                              | mm   | 946 x 410 x 810          |
| Package (W×D×H)              | inch | 42-7/8 x 19-5/8 x 34-7/8 |
|                              | mm   | 1090 x 500 x 885         |
| Net/Gross Weight             | lbs  | 164 / 175                |
|                              | kg   | 74.4 / 79.2              |

## EFFICIENCY

| Cooling |      | Heating |      |
|---------|------|---------|------|
| SEER2   | 16.0 | HSPF2-4 | 9.6  |
| EER2    | 11.0 | COP     | 3.39 |

## PERFORMANCE of Cooling

| Cooling (Btu/hr)                |                                                     |
|---------------------------------|-----------------------------------------------------|
| Rated Capacity                  | 29,000                                              |
| Min/Max Capacity                | 13,900~36,000                                       |
| Moisture Removal(L/h)           | 3.7                                                 |
| Standard Operating Range(°F/°C) | -22~122(-30~50)                                     |
| 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                 | 30,000                  |
| 2. @ 47°F Min/Max Capacity      | 13,000~39,000           |
| 3. @ 17°F Rated                 | 25,000                  |
| 4. @ 5°F Rated: Capacity / COP  | 32000/1.85              |
| 5. @ 5°F Max: Capacity          | 32,000                  |
| Standard Operating Range(°F/°C) | -22~75(-30~24)          |
| 1. Rated Heating Conditions:    | Indoor: 70°F DB/60°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                      | 29.5                                   |
| Outdoor MOP                      | 30                                     |
| Communication Wiring             | AWG 20-2                               |
| Compressor RLA                   | 20.5                                   |
| Outdoor Fan Motor RLA            | 2.4                                    |
| Outdoor Fan Motor W              | /                                      |
| Indoor Fan Motor RLA             | /                                      |
| Indoor Fan Motor W               | /                                      |
| System Power Input @ Cooling (W) | 2640(1,160 ~ 3,740)                    |
| System Power Input @ Heating (W) | 2590(1,090~3,480)                      |
| MCA: Min. circuit amps (A)       | MOCP: Max. over current protection (A) |
| RLA: Rated load amps (A)         | W: Fan motor rated output (W)          |

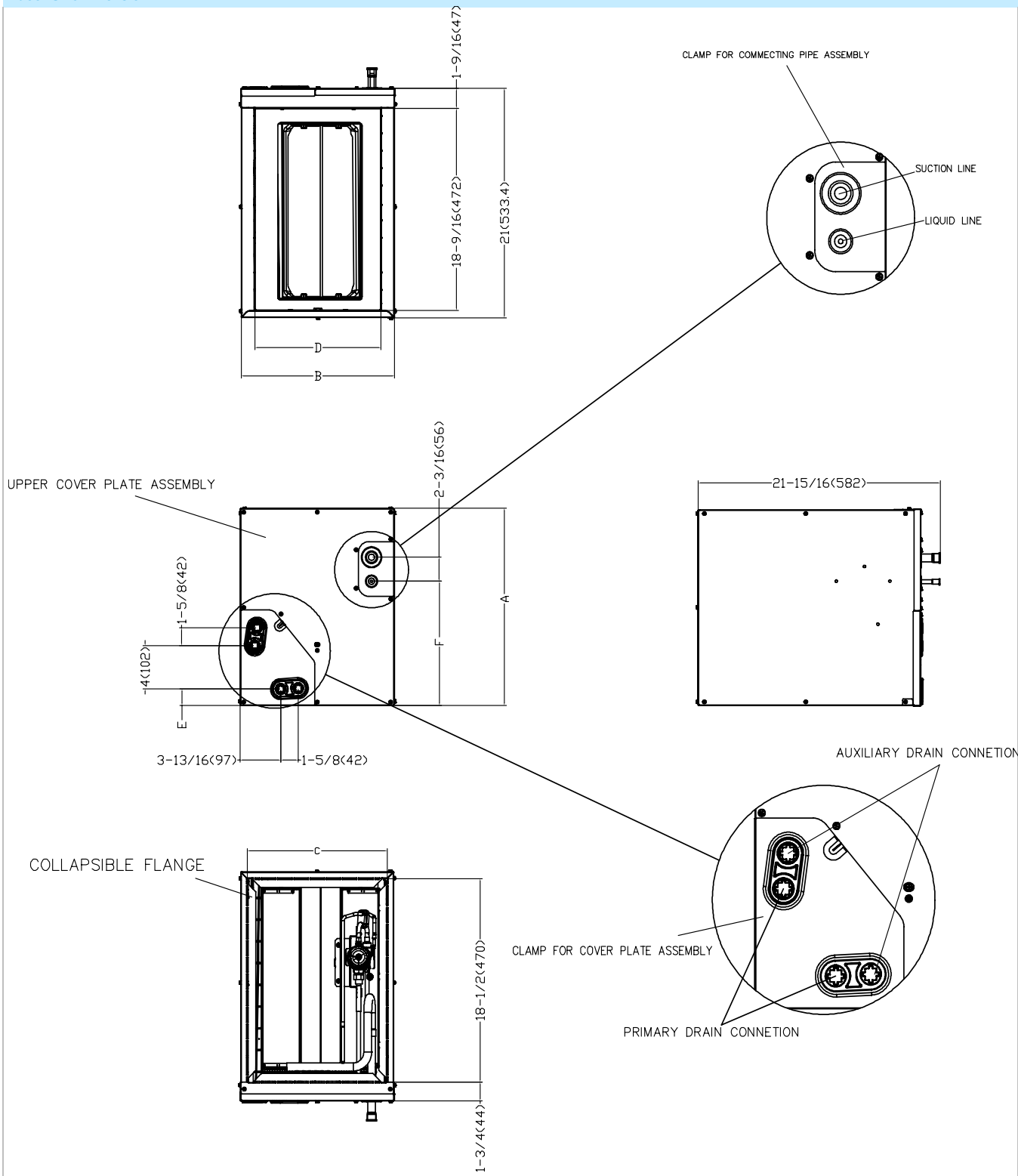
## PIPING

|                        |               |
|------------------------|---------------|
| Throttle type(Indoor)  | TXV           |
| Throttle type(Outdoor) | EXV           |
| Liquid Size            | 9.52mm(3/8in) |
| Gas Size               | 19mm(3/4in)   |

|                                   |                          |
|-----------------------------------|--------------------------|
|                                   | 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 | Indoor: 70°F DB/60°F WB  |
| Operating at Max. Frequency       | Outdoor: 5°F DB/5°F WB   |

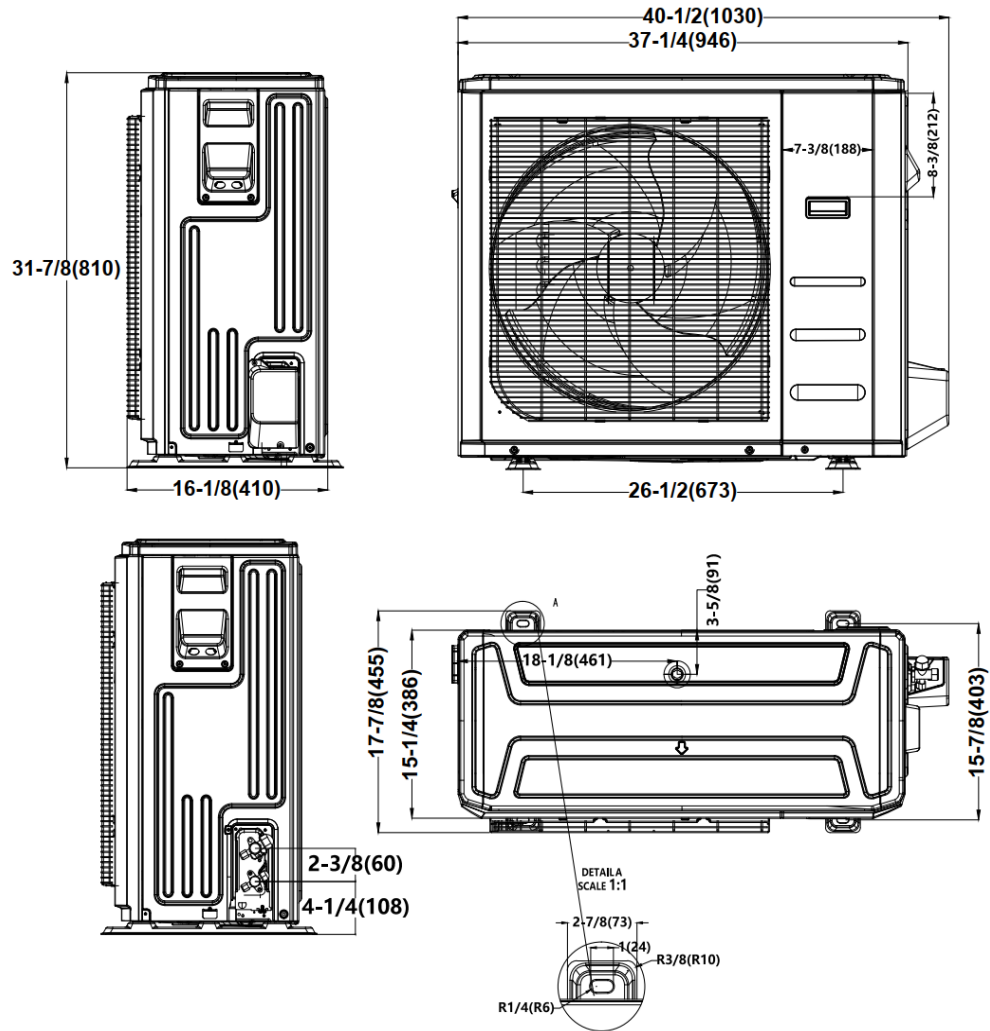
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|------------------------------------------------|-----------|
| Max. Piping Length(ft/m)                       | 164(50)   |
| Max. Height Difference(ft/m)                   | 82(25)    |
| Max. Pre-charged Length(ft/m)                  | 24.6(7.5) |
| Refrigerant Pre-charged Amount(oz/kg)          | 105.82(3) |
| Additional Charge of Refrigerant((oz/ft)/(g/m) | 0.7(65)   |
| Connection Method                              | Flared    |

## Indoor Unit Dimension

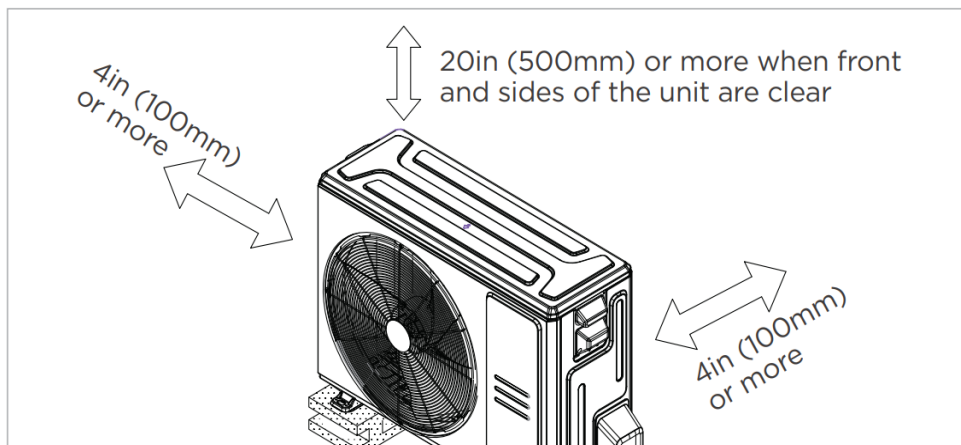
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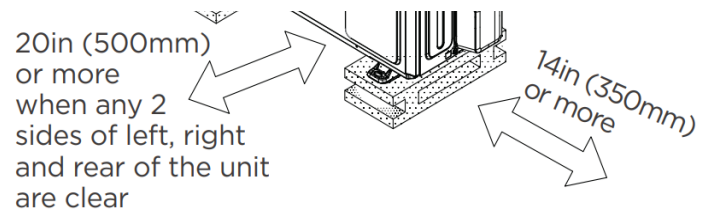
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|---|--------------------------|----------|--------|----------|-----|----------|-----|----------|-----|--------|-----|---------|-----|
| A | Model Height             | 18       | 457    | 18       | 457 | 23-5/16  | 592 | 23-9/16  | 599 | 24     | 611 | 28      | 711 |
| B | Model Width              | 17-1/2   | 445    | 14-1/2   | 368 | 14-1/2   | 368 | 17-1/2   | 445 | 21     | 534 | 24-1/2  | 622 |
| C | Supply Air Opening Width | 16-3/16  | 411    | 13-1/4   | 336 | 13-1/4   | 336 | 16-3/16  | 411 | 19-3/4 | 502 | 23-1/4  | 591 |
| D | Return Air Opening Width | 14-15/16 | 380    | 11-15/16 | 303 | 11-15/16 | 303 | 14-15/16 | 380 | 19-1/2 | 498 | 23-1/8  | 587 |
| E | Condensate Drains Height | 1-7/16   | 1-7/16 | 1-7/16   | 38  | 1-7/16   | 38  | 1-7/16   | 38  | 2-3/16 | 55  | 2-3/16  | 55  |
| F | Liquid Line Height       | 11-3/8   | 290    | 11-3/8   | 290 | 17-15/16 | 455 | 16-3/8   | 417 | 17-1/2 | 445 | 21-7/16 | 545 |

## Outdoor Unit Dimension



## Installation Instruction For Outdoor Unit





Meets all spatial requirements shown in Installation Clearance Requirements above.

#### 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