

# SUBMITTAL DATA SHEET

Series Name: DC Inverter Heat Pump Front Return AHU Series  
Model Number: PFR-18H15/PTDO-18H15

| Air Handler Heat Pump System |               |
|------------------------------|---------------|
| Location:                    | Approval:     |
| Engineer:                    | Date:         |
| Submitted to:                | Construction: |
| Submitted by:                | Unit #:       |
| Reference:                   | Drawing #:    |



| INDOOR SPECIFICATION                |      |                            |
|-------------------------------------|------|----------------------------|
| Indoor Air Flow (High/Low) (CFM)    |      | 605/512                    |
| Indoor Noise Level (High/Low) (dBA) |      | 49                         |
| Dimension (W×D×H)                   | inch | 20-15/32×14-61/64×36-1/32  |
|                                     | mm   | 520×380×915                |
| Package (W×D×H)                     | inch | 23-15/64×17-23/32×39-11/64 |
|                                     | mm   | 580×436×995                |
| Net/Gross Weight                    | lbs  | 88/95                      |
|                                     | kg   | 39.9/43.1                  |

| OUTDOOR SPECIFICATION        |      |                           |
|------------------------------|------|---------------------------|
| Compressor Type              |      | ROTARY                    |
| Compressor Model             |      | KTN210D60UMT3             |
| Refrigerant                  |      | R32                       |
| Refrigerant Oil Charge(mL)   |      | 630                       |
| Refrigerant Oil              |      | VG74                      |
| Outdoor Air Flow (Max) (CFM) |      | 2100.0                    |
| Outdoor Noise Level (dBA)    |      | 58                        |
| Dimension (W×D×H)            | inch | 23-5/8×23-5/8×25          |
|                              | mm   | 600×600×635               |
| Package (W×D×H)              | inch | 25-63/64×25-63/64×26-3/16 |
|                              | mm   | 660×660×665               |
| Net/Gross Weight             | lbs  | 111/118                   |
|                              | kg   | 50.5/53.5                 |

| EFFICIENCY |      |         |      |
|------------|------|---------|------|
| Cooling    |      | Heating |      |
| SEER2      | 15.0 | HSPF2-5 | 7.1  |
| EER2       | 10.0 | COP     | 3.50 |

| PERFORMANCE of Cooling          |                                                     |
|---------------------------------|-----------------------------------------------------|
| Cooling (Btu/hr)                |                                                     |
| Rated Capacity                  | 18000                                               |
| Min/Max Capacity                | 6500~19000                                          |
| Moisture Removal(L/h)           | 1.67                                                |
| Standard Operating Range(*F/°C) | 5~131(-15~55)                                       |
| 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                                               | 19000                                               |
| 1. @ 47°F Min/Max Capacity                                    | 6800~21000                                          |
| 2. @ 17°F Rated                                               | 12500                                               |
| 3. @ 5°F Rated: Capacity / COP                                | 17000/1.85                                          |
| 3. @ 5°F Max: Capacity                                        | 16000                                               |
| Standard Operating Range(*F/°C)                               | -4~75(-20~24)                                       |
| 1. Rated Heating Conditions:                                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 47°F DB/43°F WB |
| 2. Rated Heating Conditions:                                  | Indoor: 70°F DB/60°F WB<br>Outdoor: 17°F DB/15°F WB |
| 3. Heating Conditions, Compressor Operating at Max. Frequency | Indoor: 70°F DB/60°F WB<br>Outdoor: 5°F DB/5°F WB   |

| ELECTRICAL                       |                                        |
|----------------------------------|----------------------------------------|
| Indoor Power Supply              | 208/230V,60Hz,1Ph                      |
| Indoor MCA 115V/(208/230V)       | 1.5                                    |
| Indoor MOP                       | 3                                      |
| Outdoor Power Supply             | 208/230V,60Hz,1Ph                      |
| Outdoor MCA                      | 16                                     |
| Outdoor MOP                      | 20                                     |
| Communication Wiring             | AWG 25×3 Shielded                      |
| Compressor RLA                   | 8.4                                    |
| Outdoor Fan Motor RLA            | 2.3                                    |
| Outdoor Fan Motor W              | 200                                    |
| Indoor Fan Motor RLA             | 1.19                                   |
| Indoor Fan Motor W               | 100                                    |
| System Power Input @ Cooling (W) | 1800(600~1800)                         |
| System Power Input @ Heating (W) | 1590(500~1860)                         |
| 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)                          | Piston        |
| Throttle type(Outdoor)                         | Capillary     |
| Liquid Size                                    | 9.52mm(3/8in) |
| Gas Size                                       | 19mm(3/4in)   |
| Max. Piping Length(ft/m)                       | 98.4(30)      |
| Max. Height Difference(ft/m)                   | 65.6(20)      |
| Max. Pre-charged Length(ft/m)                  | 24.6(7.5)     |
| Refrigerant Pre-charged Amount(oz/kg)          | 65.26(1.85)   |
| Additional Charge of Refrigerant((oz/ft)/(g/m) | 0.52(48)      |
| Connection Method                              | Welding       |