

SUBMITTAL DATA SHEET

Series Name: DC Inverter Heat Pump Front Return AHU Series
Model Number: PFR-24H15/PTDO-24H15

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)		796/660
Indoor Noise Level (High/Low) (dBA)		52
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	114/120
	kg	51.5/54.5

EFFICIENCY			
Cooling		Heating	
SEER2	15.0	HSPF2-5	6.9
EER2	9.5	COP	3.20

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	23000
Min/Max Capacity	6800~25000
Moisture Removal(L/h)	1.93
Standard Operating Range(*F/°C)	5~131(-15~55)
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	26000
2. @ 47°F Min/Max Capacity	9000~28000
3. @ 17°F Rated	13000
4. @ 5°F Rated: Capacity / COP	18500/1.75
5. @ 5°F Max: Capacity	19000
Standard Operating Range(*F/°C)	-4~75(-20~24)
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	208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	1.5
Indoor MOP	3
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	20
Outdoor MOP	25
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)	2421.05263157895(750~2700)
System Power Input @ Heating (W)	2250(660~2600)
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)	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)	75.84(2.15)
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.52(48)
Connection Method	Flared