ComfortStar®

SUBMITTAL DATA SHEET

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



	INDOOR SPE	CIFICATION		
ESP(in.W.G)		0-0.8		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		600 / 565 / 530 / 489 / 489		
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		55.5/55.5/52.5/50.5/50.5		
Dimension (W×D×H)	inch	43.23 x 23.33 x 10.93		
	mm	1098×592.7×277.6		
Package (W×D×H)	inch	47.24 x 680 x 13.58		
	mm	1200×680×345		
Net/Gross Weight	lbs	54/58		
	kg	53.5/58		

	OUTDOOR SP	ECIFICATION
Compressor Type		ROTARY
Compressor Model		KTM240D46UKT2
Refrigerant		R454B
Refrigerant Oil Charge(mL)	620
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)	1,766
Outdoor Noise Level (d	BA)	59
Dimension (W×D×H)	inch	35.04 x 13.46 x 26.5
	mm	890×342×673
Package (W×D×H)	inch	39.17 x 15.67 x 29.13
	mm	995×398×740
Net/Gross Weight	lbs	101.41/109.13
	kg	46/49.5

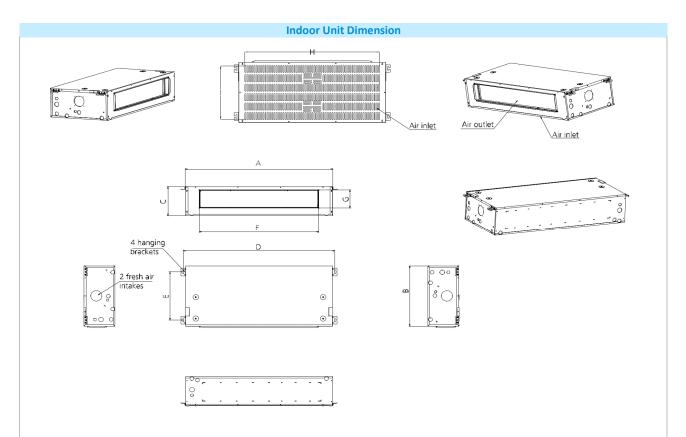
SEERZ	16.8	HSPF2-4	H3PF2-4 10.5			
EER2	12	СОР	COP 3.5			
PERFORMANCE of Cooling						
Cooling (Btu/hr)						
Rated Capacity			18,000			
Min/Max Capacity		6,000~20,000				
Moisture Removal(L/	'h)		1.46			
Standard Operating R	Range(°F/°C) -22~122(-30		-22~122(-30~50)			

PERFORM	ANCE of Cooling		
Cooling (Btu/hr)			
Rated Capacity	18,000		
Min/Max Capacity	6,000~20,000		
Moisture Removal(L/h)	1.46		
Standard Operating Range(°F/°C)	-22~122(-30~50)		
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB		
	Outdoor: 95°F DB/75°F WB		
DEDECORMA	ANCE of Hosting		

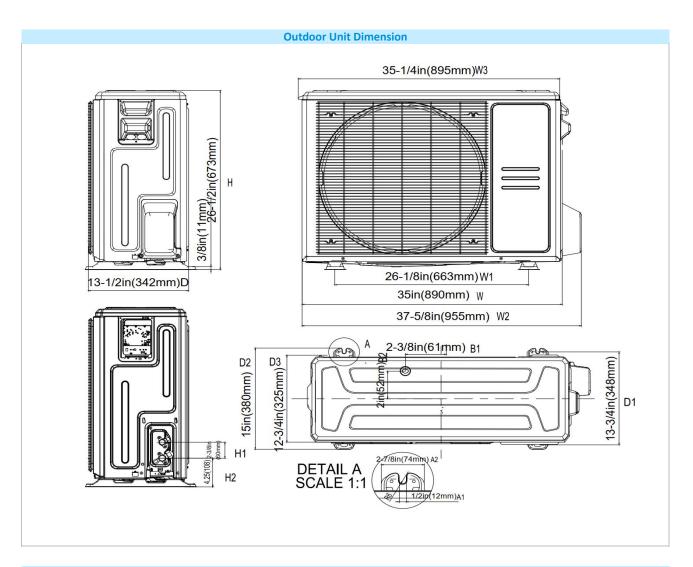
PERFORMANCE of Heating			
Heating (Btu/hr)			
1. @ 47°F Rated	19,000		
1. @ 47°F Min/Max Capacity	6,600~22,800		
2. @ 17°F Rated	15,000		
3. @ 5°F Rated: Capacity / COP			
3. @ 5°F Max: Capacity	19,000		
Standard Operating Range(°F/°C)	-22~75(-30~24)		
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F 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	Indoor: 70°F DB/60°F WB		
Operating at Max. Frequency	Outdoor: 5°F DB/5°F WB		

ELECTRICAL			
Indoor Power Supply	115/208/230,60Hz,1Ph		
Indoor MCA 115V/(208/230V)	115V:6;208/230V:5		
Indoor MOP	15		
Outdoor Power Supply	115/208/230,60Hz,1Ph		
Outdoor MCA	16		
Outdoor MOP	20		
Communication Wiring	AWG 20/2		
Compressor RLA	10.5		
Outdoor Fan Motor RLA	0.9		
Outdoor Fan Motor W	80		
Indoor Fan Motor RLA	115V:4;208/230V:3.5		
Indoor Fan Motor W	250		
System Power Input @ Cooling (W)	2(600 ~ 2,000)		
System Power Input @ Heating (W)	1,590(500 ~1,950)		
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)		
RLA: Rated load amps (A)	W: Fan motor rated output (W)		

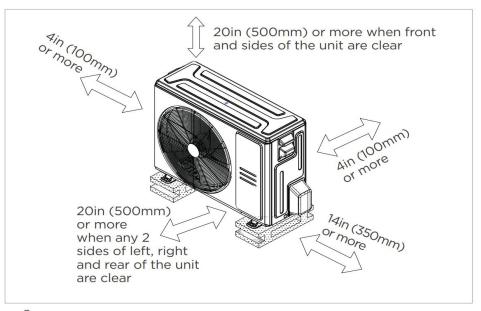
PIPING		
Throttle type(Indoor)	EXV	
Throttle type(Outdoor)	EXV	
Liquid Size	9.52mm(3/8in)	
Gas Size	19mm(3/4in)	
Max. Piping Length(ft/m)	98(30)	
Max. Height Difference(ft/m)	66(20)	
Max. Pre-charged Length(ft/m)	24.6(7.5)	
Refrigerant Pre-charged Amount(oz/kg)	74.08(2.1)	
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)	
Connection Method	Flared	



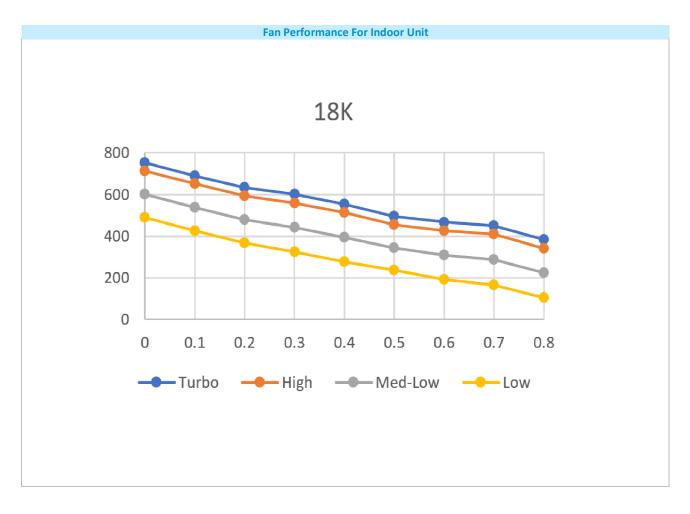
Dimensions		Model	18k inch(mm)	24k inch(mm)	30k/ inch(mm)	36k inch(mm)
	А	Model Model	39-15/16 (1015)	45-7/8 (1165)	51-15/16 (1320)	58-7/8 (1495)
Outline Dimension B	В	Model Width	23-5/16 (593)	23-5/16 (593)	23-5/16 (593)	23-5/16 (593)
	С	Model Height	10-15/16 (278)	10-15/16 (278)	10-15/16 (278)	10-15/16 (278)
Size Of	D	Mounted Lug Length	41-5/8 (1057)	47-1/2 (1207)	53-5/8 (1362)	60-1/2 (1537)
Mounted Lug E	Е	Mounted Lug Width	18-1/8 (460)	18-1/8 (460)	18-1/8 (460)	18-1/8 (460)
Air Outlet	F	Air Outlet Length	30-5/16 (769)	36-3/16 (919)	42-5/16 (1074)	49-3/16 (1249)
Opening Size G	G	Air Outlet Width	6-7/8 (174)	6-7/8 (174)	6-7/8 (174)	6-7/8 (174)
Air Return H Opening Size	Air Return Length	38-3/8 (975)	44-5/16 (1125)	50-3/8 (1280)	57-1/4 (1455)	
	11	Air Return Width	21-1/8 (536)	21-1/8 (536)	21-1/8 (536)	21-1/8 (536)



Installation Instruction For Outdoor Unit



Meets all spatial requirements shown in Installation Clearance Requirements above.



Features

- High efficiency up to 16.8 SEER2, 12 EER2, 10.5 HSPF2
- Aluminum Coil
- IDU campatible with 115V and 230V
 Constantly Air Flow system up to 0.80 ln.W.G
 Optional Auxiliary heat kit up to 10kW
- Easy Maintenance
- Multiple control options available:
- o Two way communication wired controller:AWC-4
- O Two way communication wired controller with built-in WiFi:AWC-8P-LC-WIFI
- o Wireless remote controller o Third-Party 24V Thermostat
- Adaptive Control wiring method on 24V and RS485
- Downward or Backward (optional) air inlet
- Chassis heater and crankcase heater equipped as standard