ComfortStar®

SUBMITTAL DATA SHEET

Model Number: <u>CPR3-18CD(O) /CWM3-18-SG</u>

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



EFFICIENCY			
Cooling		He	ating
SEER2	18.5	HSPF2-4	9.4
EER2	11.5	COP	3.55
		1	1

PERFORMA	ANCE OF COOLING	
Cooling (Btu/hr)		
Rated Capacity	18000	
Min/Max Capacity	5900~20600	
Moisture Removal(L/h)	1.87	
Standard Operating Range(°F/°C)	-25~50(-25~50)	
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB	
	Outdoor: 95°F DB/75°F WB	

PERFORMA	NCE of Heating		
Heating (Btu/hr)			
1. @ 47°F Rated	18000		
2. @ 47°F Min/Max Capacity	3900~19600		
3. @ 17°F Rated	12600		
4. @ 5°F Rated: Capacity / COP	11400/2.1		
5. @ 5°F Max: Capacity	11400		
Standard Operating Range(°F/°C)	-25~24(-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	Indoor: 70°F DB/60°F WB		
Operating at Max. Frequency	Outdoor: 5°F DB/5°F WB		

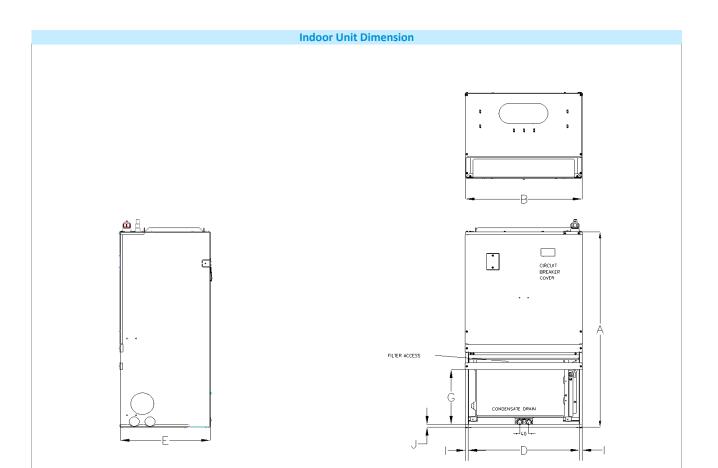
*The gas valve of the outdoor unit is 5/8", 5/8" to 3/4" flare to flare connector is required for the installation.

INDOOR SPECIFICATION				
ESP(inWG)		0~0.8		
Indoor Air Flow (Turbo/	H/M/L/Si) (CFM)	618.0 / 576.8 / 529.7 / 488.5 / /		
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		48.0/47/45/39/N\A		
Dimension (W×D×H)	inch	20.28 x 15.71 x 36.54		
	mm	515×399×928		
Package	inch	22.83 x 19.49 x 42.91		
(W×D×H)	mm	580×495×1090		
Net/Gross Weight	lbs	111.33/91.49		
	kg	50.5/41.5		

OUTDOOR SPECIFICATION				
Compressor Type		ROTARY		
Compressor Model		KSN140D58UFZ		
Refrigerant		R454B		
Refrigerant Oil Charge(n	ιL)	440		
Refrigerant Oil		VG74		
Outdoor Air Flow (Max)	(CFM)	1450.9		
Outdoor Noise Level (dB	A)	55.5		
Dimension inch		31.69 x 12.99 x 21.81		
(W×D×H)	mm	805×330×554		
Package	inch	36.02 x 14.57 x 24.21		
(W×D×H) mm		915×370×615		
	lbs	77.16/83.77		
Net/Gross Weight	kg	35/38		

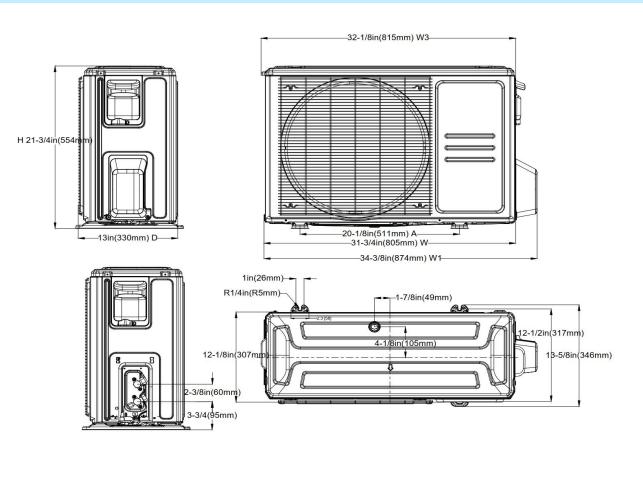
ELECT	RICAL
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	4
Indoor MOP	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	16
Outdoor MOP	20
Communication Wiring	AWG 20-2
Compressor RLA	10
Outdoor Fan Motor RLA	0.8
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	3
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1565(360 ~ 1820)
System Power Input @ Heating (W)	1485(275 ~1610)
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) EX			
Throttle type(Outdoor)	EXV		
Liquid Size	9.52mm(3/8in)		
Gas Size	19mm(3/4in)		
Max. Piping Length(ft/m)	98.40(30)		
Max. Height Difference(ft/m)	65.60(20)		
Max. Pre-charged Length(ft/m)	24.6(7.5)		
Refrigerant Pre-charged Amount(oz/kg)	51.15(1.45)		
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)		
Connection Method	Flared*		

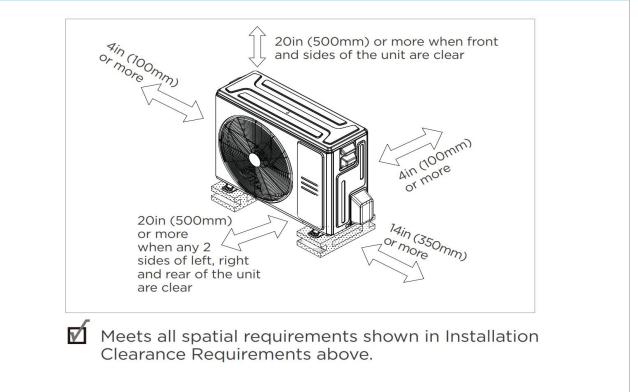


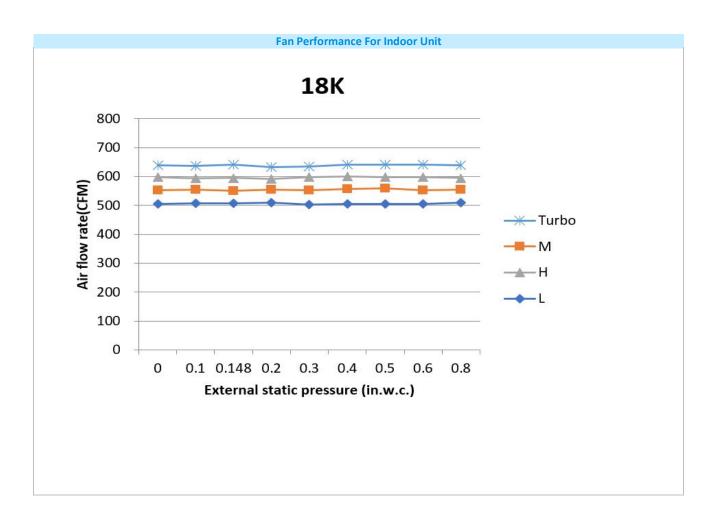
Model(Btu/h)		18 K/24 K		30 K/ 36 K	
Dimensions		inch	m	inch	mm
A	Model Height	36.5	928	49	1017
В	Model Width	20.3	515	21	559
С	Supply Air Opening Width	17.4	442	18 .8	4 78 .6
D	Return Air Opening Width	19.4	493.8	21.2	537.8
E	Model Depth	15 .7	399	21	483
F	Supply Air Opening Depth	10 .4	265.2	9.3	235.4
G	Return Air Opening Depth	10.3	261	13.1	332.5
Н	Supply Air Opening Clearance	1,1	29.1	1.6	41
	Return Air Opening Side Clearance	0.42	10.6	0.42	18.6
J	Return Air Opening Front Clearance	0.47	12	0.63	16

Outdoor Unit Dimension



Installation Instruction For Outdoor Unit





Features

- Multi-position of return air: front(factory standard) or bottom
 Aluminum Coil
- Constantly Air Flow system up to 0.80 In.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
- High efficiency up to 18.5 SEER2, 11.5 EER2, 9.4 HSPF2
- Chassis heater and crankcase heater equipped as standard