ComfortStar®
Air Conditioning & Heating Products

SUBMITTAL DATA SHEET

Series Name: DC Inverter Heat Pump AHU Series
Model Number: CWM32-18-15/BAH32-18-15

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





INDOOR SPECIFICATION		
Indoor Air Flow (Low/High) (CFM)		650/560
Indoor Noise Level(dBA)		49
Dimension (W×D×H)	**mm**	520×380×915
	inch	20-15/32×14-61/64×36-1/32
Package (W×D×H)	**mm**	590×460×1000
	inch	23 15/64×18 7/64×39 3/8
Net/Gross Weight	**kg**	41/45.5
	lbs	90/100

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

EFFICIENCY			
Cooling		Heating	
SEER2	15.2	**HSPF2**	8.40
EER2	10.0	**COP**	3.50

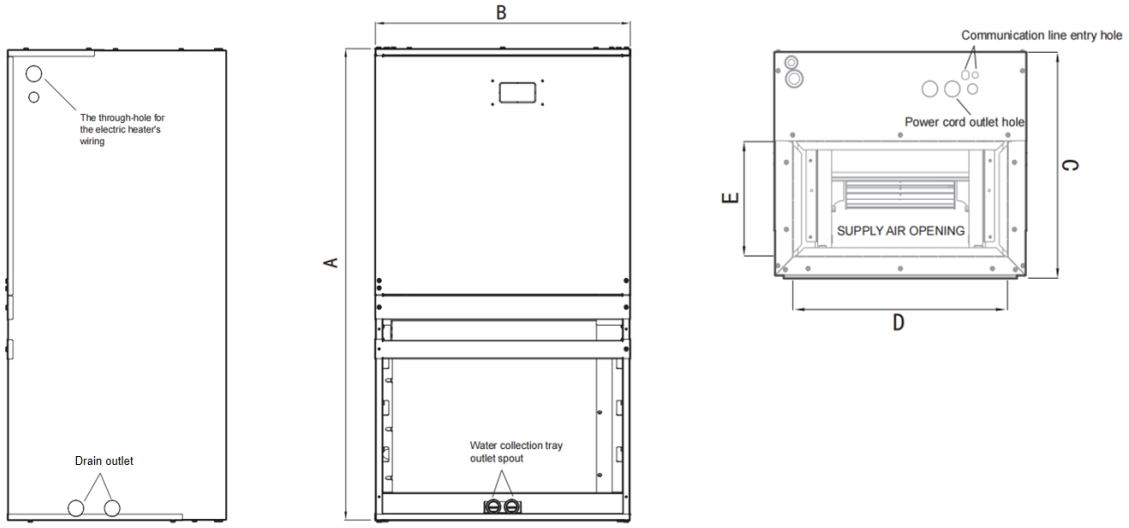
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Capacity	18000
Min/Max Capacity	6500~19000
Standard Operating Range(°F/°C)	5~136/-15~58
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB
	Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	19000
1. @ 47°F Min/Max Capacity	6800~21000
2. @ 17°F Rated	11900
3. @ 5°F Rated: Capacity	18000
Standard Operating Range(°F/°C)	-20～24/-4~75
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	208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	3
Indoor MOP	1.5
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	16
Outdoor MOP	20
Communication Wiring	AWG 20
Compressor RLA	8.4
Outdoor Fan Motor RLA	0.92
Outdoor Fan Motor W	200
Indoor Fan Motor RLA	1.2
Indoor Fan Motor W	100
System Power Input @ Cooling (W)	1800
System Power Input @ Heating (W)	2262
MCA: Min. circuit amps (A)	**MOCP: Max. over current protection (A)**
RLA: Rated load amps (A)	**W: Fan motor rated output (W)**

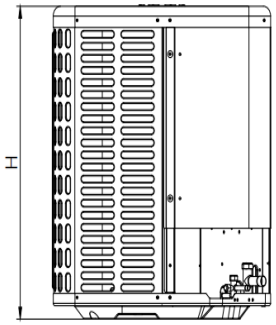
PIPING	
Throttle type(Indoor)	Capillary
Throttle type(Outdoor)	Capillary
Liquid Size	3/8
Gas Size	3/4
Max. Piping Length(ft/m)	98/29.4
Max. Height Difference(ft/m)	66/19.8
Max. Pre-charged Length(ft/m)	24.6(7.5)
Additional Charge of Refrigerant((oz/ft)/(g/m	0.52(48)
Connection Method	Welding

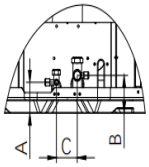
Indoor Unit Dimension

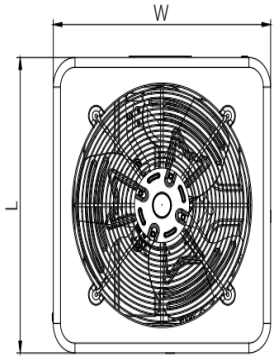


Dimensions / Model		18/24K		30/36K	
		inch	mm	inch	mm
A	Model Height	36-1/32	915	39-9/16	1005
B	Model width	20-15/32	520	22-3/64	560
C	Supply Air Opening width	14-61/64	380	19-3/32	485
D	Return Air Opening Width	17-33/64	445	18-57/64	480
E	Model Depth	9-29/64	240	9-27/32	250

Outdoor Unit Dimension

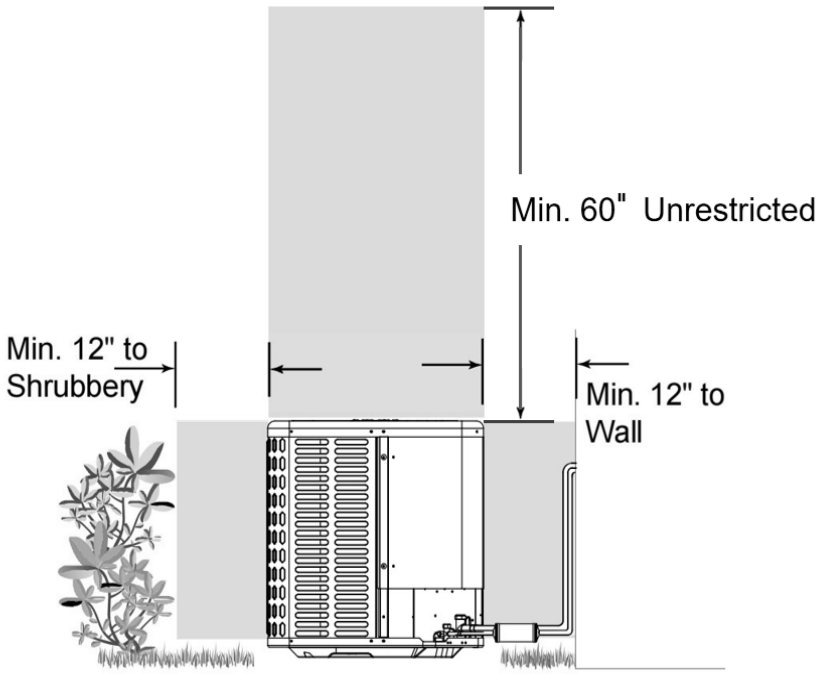




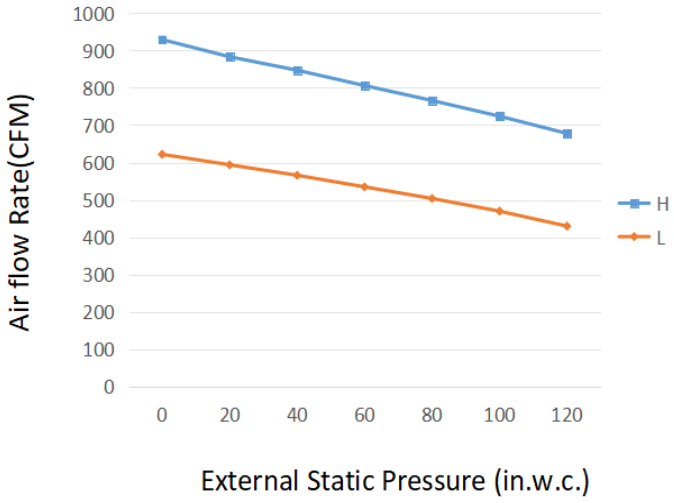


Dimensions / Model		18K/24K		30K/36K	
		inch	mm	inch	mm
W	Model width	23-5/8	600	29-9/64	740
L	Model length	23-5/8	600	29-9/64	740
H	Model height	25	635	25	635
A	Liquid side valve height	2-31/64	63	2-31/64	63
B	Distance between two valves	3-1/32	77	3-1/32	77
C	Gas side valve height	2-9/32	58	2-9/32	58

Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Features

- High efficiency and energy-saving, SEER2 up to 15.2
- Multi-position installation: horizontal(left or right), vertical(up or down)
- External static pressure up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency(optional)
- Optional Auxiliary heat kit
- Easy Maintenance
- Multiple control options available:
  - Wired controller with built-in WiFi
  - Third-Party 24V Thermostat
- Adaptive Control System
- Crankcase heater equipped as standard