ComfortStar®
Air Conditioning & Heating Products

SUBMITTAL DATA SHEET

Series Name: DC Inverter Heat Pump AHU Series
Model Number: CWM32-36-15/BAH32-36-15

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)		1030/830
Indoor Noise Level(dBA)		52
Dimension (W×D×H)	**mm**	560×485×1005
	inch	22-3/64×19-3/32×39-9/16
Package (W×D×H)	**mm**	630×550×1080
	inch	24 51/64×21 21/32×42 33/64
Net/Gross Weight	**kg**	48.5/55
	lbs	107/122

OUTDOOR SPECIFICATION		
Compressor Type		Rotary
Compressor Model		KTM240D57UMT
Refrigerant		R32
Refrigerant Oil Charge(mL)		670
Refrigerant Oil		ESTER Oil VG74
Outdoor Air Flow (Max) (CFM)		2800.0
Outdoor Noise Level (dBA)		59
Dimension (W×D×H)	**mm**	740×740×635
	inch	29-9/64×29-9/64×25
Package (W×D×H)	**mm**	770×770×665
	inch	30-5/16×30-5/16×26-3/16
Net/Gross Weight	**kg**	63.5/67
	lbs	140/148

EFFICIENCY			
Cooling		Heating	
SEER2	15.2	HSPF2	8.00
EER2	9.0	COP	3.20

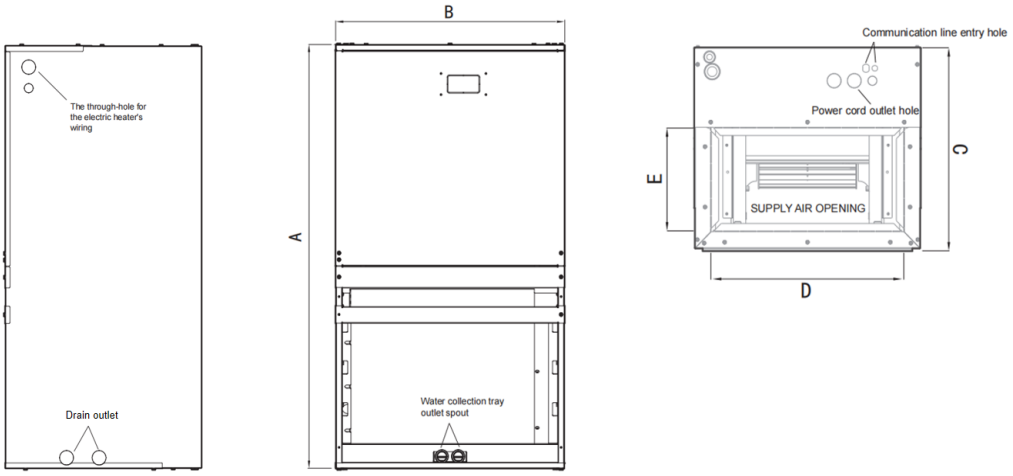
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Capacity	34200
Min/Max Capacity	13000~38000
Standard Operating Range(°F/°C)	5~136/-15~58
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB
	Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	36000
1. @ 47°F Min/Max Capacity	11000~39000
2. @ 17°F Rated	23000
3. @ 5°F Rated: Capacity	34000
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	2.8
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	25
Outdoor MOP	30
Communication Wiring	AWG 20
Compressor RLA	9.45
Outdoor Fan Motor RLA	0.92
Outdoor Fan Motor W	200
Indoor Fan Motor RLA	1.54
Indoor Fan Motor W	200
System Power Input @ Cooling (W)	3800
System Power Input @ Heating (W)	4500
MCA: Min. circuit amps (A)	**MOCP: Max. over current protection (A)**
RLA: Rated load amps (A)	**W: Fan motor rated output (W)**

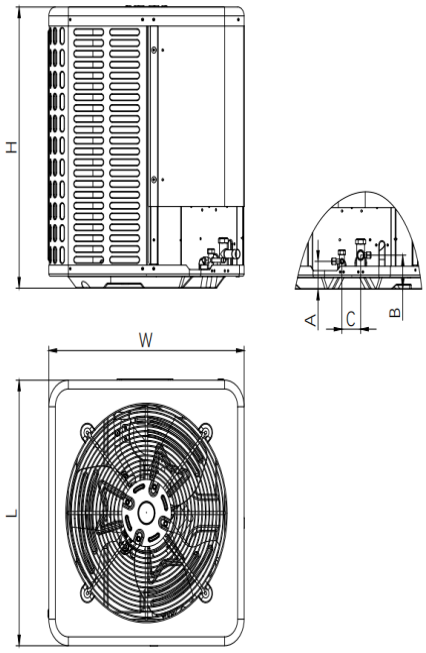
PIPING	
Throttle type(Indoor)	Capillary
Throttle type(Outdoor)	Capillary
Liquid Size	3/8
Gas Size	3/4
Max. Piping Length(ft/m)	246/73.8
Max. Height Difference(ft/m)	98/29.4
Max. Pre-charged Length(ft/m)	24.6(7.5)
dditional Charge of Refrigerant((oz/ft)/(g/m	0.52(48)
Connection Method	Welding

Indoor Unit Dimension



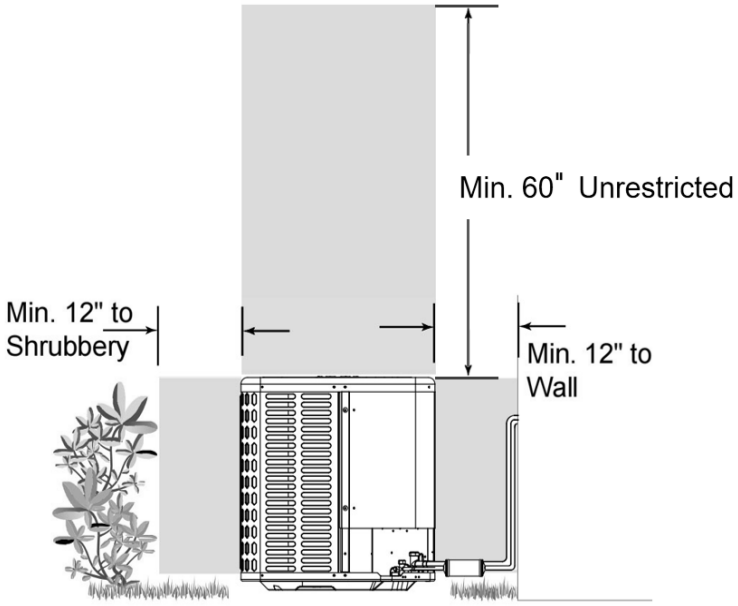
Dimensions / Model		18/24K		30/36K	
		inch	mm	inch	mm
A	Model Height	36-1/32	915	39-9/16	1005
B	Model width	20-15/32	520	22-3/64	560
C	Supply Air Opening width	14-61/64	380	19-3/32	485
D	Return Air Opening Width	17-33/64	445	18-57/64	480
E	Model Depth	9-29/64	240	9-27/32	250

Outdoor Unit Dimension

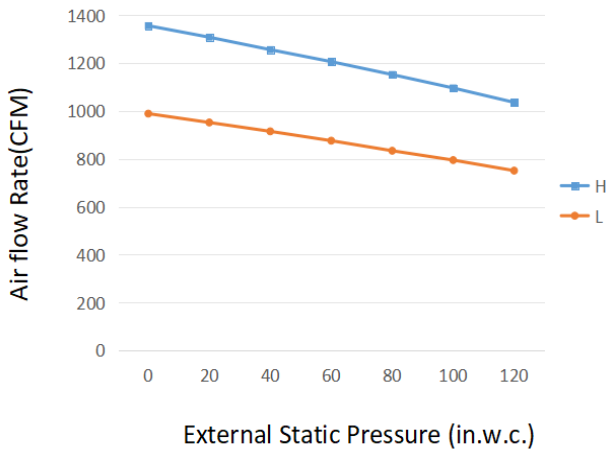


Dimensions / Model		18K/24K		30K/36K	
		inch	mm	inch	mm
W	Model width	23-5/8	600	29-9/64	740
L	Model length	23-5/8	600	29-9/64	740
H	Model height	25	635	25	635
A	Liquid side valve height	2-31/64	63	2-31/64	63
B	Distance between two valves	3-1/32	77	3-1/32	77
C	Gas side valve height	2-9/32	58	2-9/32	58

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