ComfortStar

SUBMITTAL DATA SHEET

Series Name: Hyper Heat AHU Series
Model Number: CHH32-48/ASH48SG32

Hyper Heat Wall-Mounted AHU Series	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Indoor Air Flow (High/Low) (CFM)		1740/1099
Indoor Noise Level (High/Low) (dBA)		54/34
Dimension (W×D×H)	inch	24-1/2*21*53
	mm	622*534*1346
Package (W×D×H)	inch	27-7/8*26-9/16*27-1/16
	mm	708*675*1375
Net/Gross Weight	lbs	165/184
	kg	75/83.5

OUTDOOR SPECIFICATION		
Compressor Type		TWIN-ROTARY
Compressor Model		EKTF400D64UMTR
Refrigerant		R32
Refrigerant Oil Charge(mL)		1500
Refrigerant Oil		VG75R
Outdoor Air Flow (Max) (CFM)		3413.8
Outdoor Noise Level (dBA)		65
Dimension (W×D×H)	inch	42-11/16*19-8/16*33-14/16
	mm	1085*495*860
Package (W×D×H)	inch	44-14/16*21-10/16*38-9/16
	mm	1140*550*980
Net/Gross Weight	lbs	227.07/255.73
	kg	103/116

EFFICIENCY			
Cooling		Heating	
SEER2	17.1	HSPF2	9.3
EER2	10.2	COP	3.40

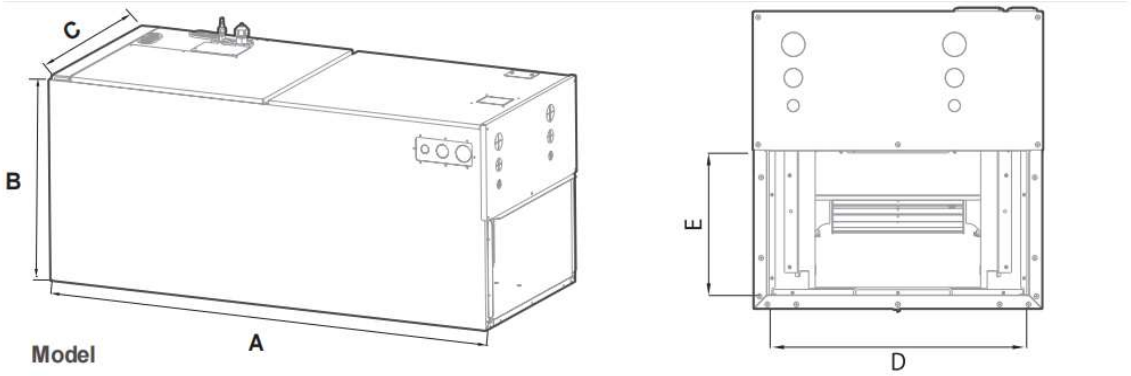
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	48000
Min/Max Capacity	13000~51000
Standard Operating Range(℉/℃)	(5~122)℉/(-15～50)℃
Rated Cooling Conditions:	Indoor: 80℉ DB/67℉ WB Outdoor: 95℉ DB/75℉ WB

ELECTRICAL	
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	14.5/11.0
Indoor MOP	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	38
Outdoor MOP	40
Communication Wiring	AWG 20-2
Compressor RLA	28
Outdoor Fan Motor RLA	2
Outdoor Compressor Input Power	3560
Indoor Fan Motor RLA	7.8
Indoor Fan Motor W	560
System Power Input @ Cooling (W)	4690
System Power Input @ Heating (W)	4320
MCA: Min. circuit amps (A)	**MOCP: Max. over current protection (A)**
RLA: Rated load amps (A)	**W: Fan motor rated output (W)**

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47℉ Rated	50000
2. @ 47℉ Min/Max Capacity	11000~59000
3. @ 17℉ Rated: Capacity	48000
4. @ 5℉ Rated: Capacity	48000
5. @ -4℉ Rated: Capacity	40700
6. @ -13℉ Rated: Capacity	34200
6. @ -22℉ Rated: Capacity	25000
Standard Operating Range(℉/℃)	(-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 Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

PIPING	
Throttle type(Indoor)	TXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246/75
Max. Height Difference(ft/m)	98.4/30
Max. Pre-charged Length(ft/m)	/
Refrigerant Pre-charged Amount(oz/kg)	134.04/3.8
Additional Charge of Refrigerant((oz/ft)/(g/m)	0.52/48
Connection Method	Threaded

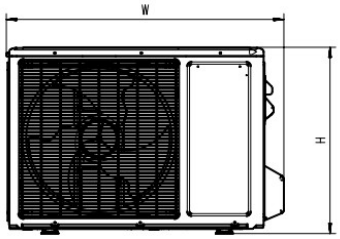
Indoor Unit Dimension

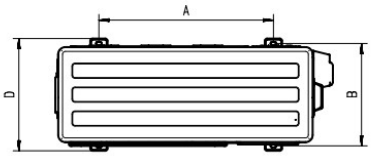


Model

Dimensions \ Model(Btu/h)		24K	36K	48K/60K
Length of A	mm	1145	1245	1346
	inch	45	49-1/64	52-63/64
Length of B	mm	534	534	534
	inch	21-1/32	21-1/32	21-1/32
Length of C	mm	445	534	622
	inch	17-33/64	21-1/32	24-31/64
Length of D	mm	400	490	580
	inch	15-3/4	19-19/64	22-53/64
Length of E	mm	260	260	260
	inch	10-15/64	10-15/64	10-15/64

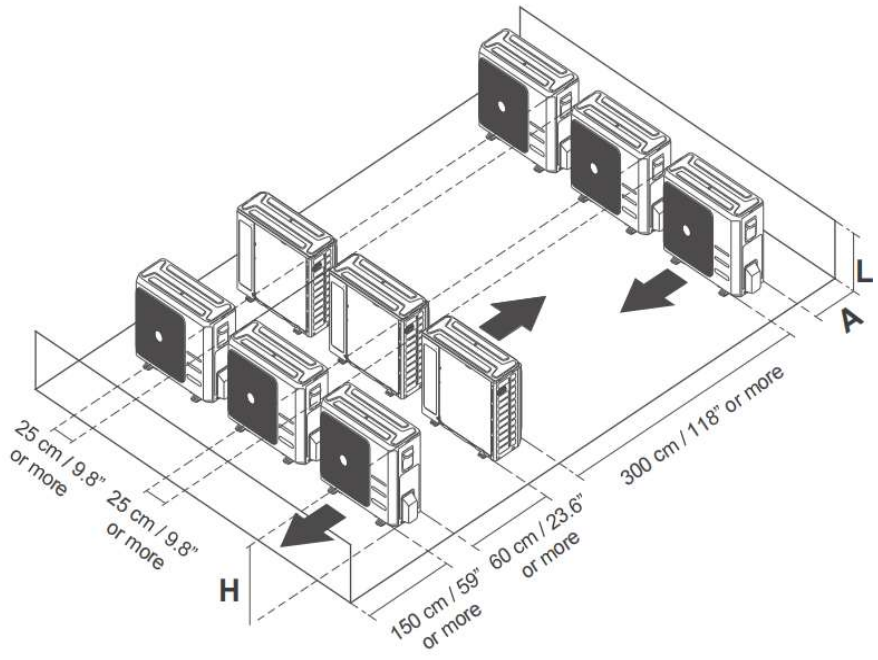
Outdoor Unit Dimension



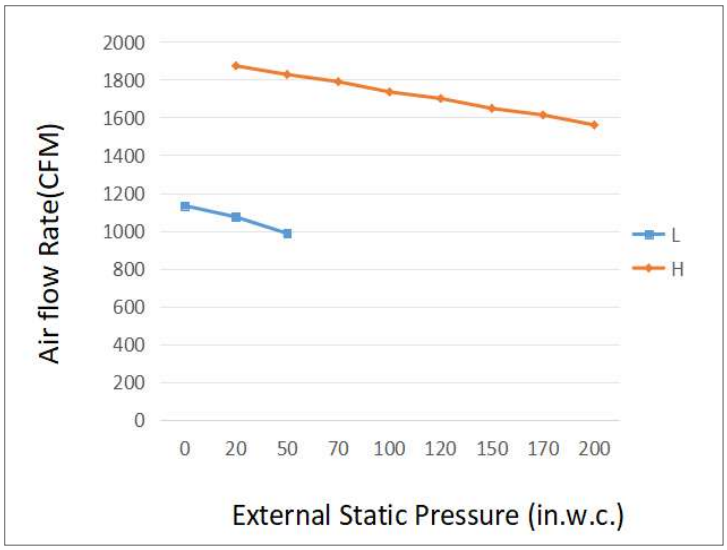


Dimensions / Model		24K		36K		48K/60K	
		inch	mm	inch	mm	inch	mm
W	Model width	915	36-1/32	965	37-63/64	1085	42-11/16
H	Model height	650	25-19/32	810	31-57/64	860	33-14/16
D	Model depth	392	15-7/16	448	17-41/64	495	19-8/16

Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Features

- High efficiency and energy-saving, SEER2 up to 18
- Multi-position installation: horizontal(left or right), vertical(up or down)
- ECM fan motor with constant torque technology
- 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 up to 10kW
- Easy Maintenance
- Multiple control options available:
  - Wired controller with built-in WiFi
  - Third-Party 24V Thermostat
- Adaptive Control System
- Crankcase heater equipped as standard