

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



INDOOR SPECIFICATION			
Indoor Air Flow (High/Low) (CFM)		605/512	
Indoor Noise Level (High/Low) (dBA)		49	
Dimension (W×D×H)	inch	20-25/32×15-13/64×36-1/32	
	mm	520×380×915	
Package (W×D×H)	inch	23-15/64×17-23/32×39-11/64	
	mm	580×436×995	
Net/Gross Weight	lbs	88/95	
	kg	39.9/43.1	

OUTDOOR SPECIFICATION			
Compressor Type		ROTARY	
Compressor Model		KSN140D33UFZ3	
Refrigerant		R32	
Refrigerant Oil Charge(mL)		420	
Refrigerant Oil		VG74	
Outdoor Air Flow (Max) (CFM)		2000.0	
Outdoor Noise Level (dBA)		54	
Dimension (W×D×H)	inch	36-1/32×25-19/32×13-37/64	
	mm	915×650×345	
Package (W×D×H)	inch	40-5/32×28-15/16×17-1/8	
	mm	1020×735×435	
Net/Gross Weight	lbs	84/92	
	kg	38/41.5	

EFFICIENCY			
Cooling		Heating	
SEER2	15.0	HSPF2-5	7.1
EER2	10.0	COP	3.50

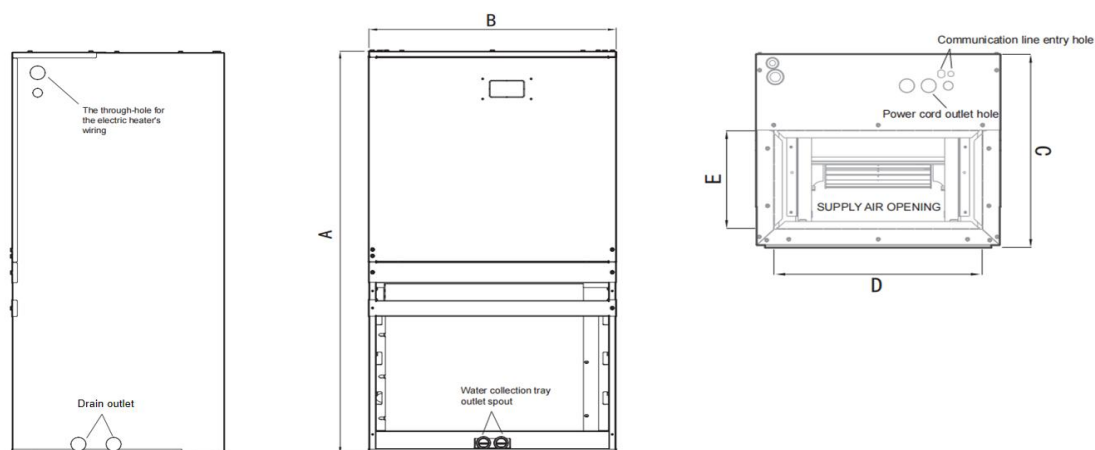
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	6500~19000
Moisture Removal(L/h)	1.67
Standard Operating Range(*F/*C)	5~131(-15~55)
Rated Cooling Conditions:	
Indoor: 80°F DB/67°F WB	
Outdoor: 95°F DB/75°F WB	

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	19000
1. @ 47°F Min/Max Capacity	6800~21000
2. @ 17°F Rated	12500
3. @ 5°F Rated: Capacity / COP	16000/1.85
3. @ 5°F Max: Capacity	16000
Standard Operating Range(*F/*C)	-4~75(-20~24)
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	

ELECTRICAL	
Indoor Power Supply	208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	1.5
Indoor MOP	3
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	16
Outdoor MOP	20
Communication Wiring	AWG 25×3 Shielded
Compressor RLA	6.8
Outdoor Fan Motor RLA	2
Outdoor Fan Motor W	75
Indoor Fan Motor RLA	1.19
Indoor Fan Motor W	100
System Power Input @ Cooling (W)	1800(600~1800)
System Power Input @ Heating (W)	1590(500~1860)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

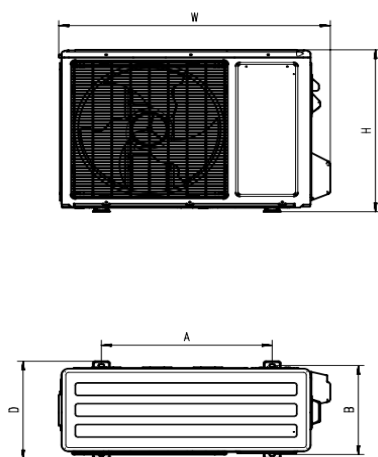
PIPING	
Throttle type(Indoor)	Piston
Throttle type(Outdoor)	Capillary
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	98.4(30)
Max. Height Difference(ft/m)	65.6(20)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	56.44(1.6)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.52(48)
Connection Method	Welding

Indoor Unit Dimension



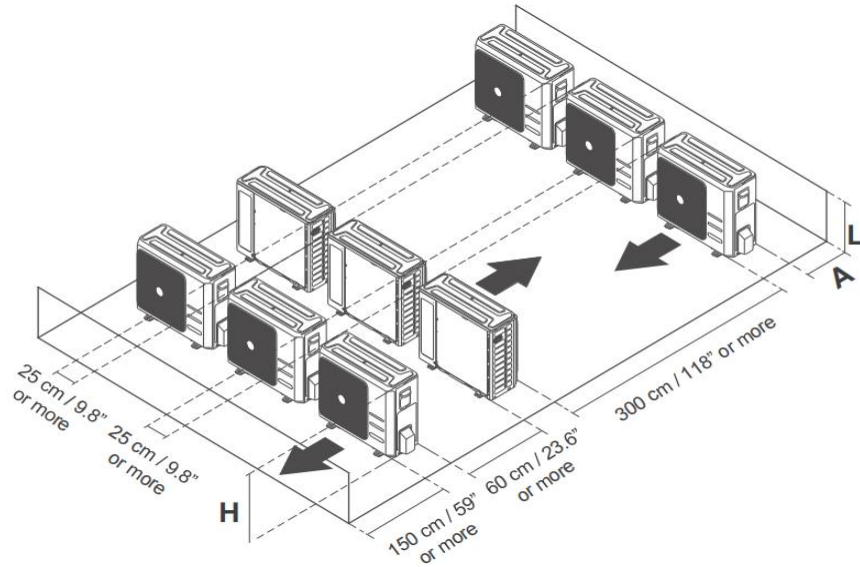
Dimensions		Model	18K/24K	30K/36K
			inch	inch
A	Model Height		36-1/32	39-41/64
B	Model Width		20-25/32	22-1/8
C	Supply Air Opening width		14-61/64	19-3/32
D	Return Air Opening width		17-33/64	18-57/64
E	Model Depth		15-13/64	19-1/16

Outdoor Unit Dimension

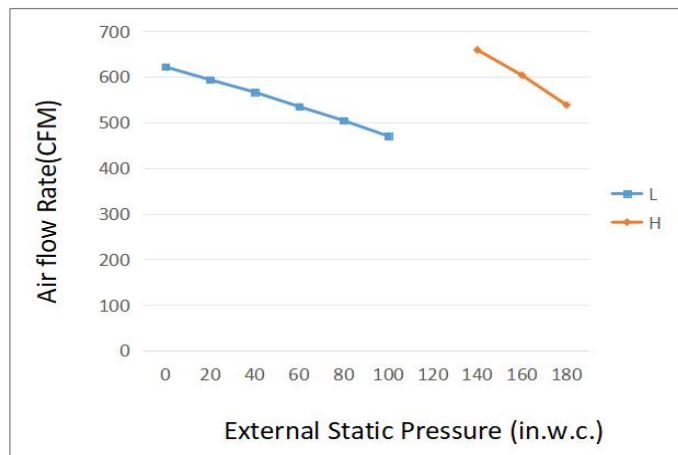


Dimensions		Model	18K/24K	30K/36K/48K/60K
			inch	inch
W	Model Width		36-1/32	37-63/64
H	Model Height		25-19/32	31-57/64
A	Distance between left and right foot bolts		14-61/64	19-3/32
B	Distance between front and rear foot bolts		17-33/64	18-57/64
D	Model Depth		13-37/64	15-3/4

Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Features

- Front air intake, easy installation
- 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 20kW
- Easy Maintenance
- Multiple control options available:
 - Wired controller with built-in WiFi
 - Third-Party 24V Thermostat
- Adaptive Control System
- Crankcase heater equipped as standard