

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)			675/450
Indoor Noise Level (High/Low) (dBA)			50/43
Dimension (W×D×H)	inch		20-15/32×14-61/64×36-1/32
	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			KSF155N2VETB3
Refrigerant			R32
Refrigerant Oil Charge(mL)			255
Refrigerant Oil			VG74
Outdoor Air Flow (Max) (CFM)			2000.0
Outdoor Noise Level (dBA)			58
Dimension (W×D×H)	inch		117/123
	mm		53/56
Package (W×D×H)	inch		25-63/64×25-63/64×26-3/16
	mm		660×660×665
Net/Gross Weight	lbs		117/123
	kg		53/56

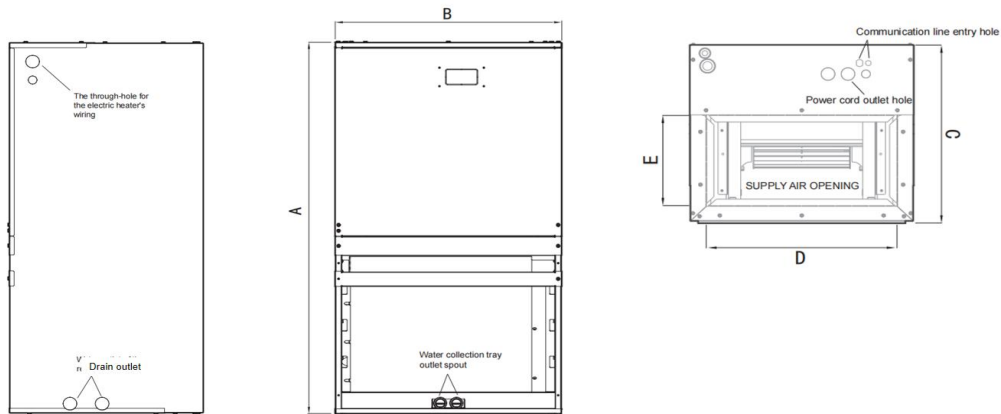
EFFICIENCY			
Cooling			
SEER2	14.3		
EER2	12.2		

PERFORMANCE of Cooling			
Cooling (Btu/hr)			
Rated Capacity			18000
Standard Operating Range(°F)			23~125
Rated Cooling Conditions:		Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB	

ELECTRICAL			
Indoor Power Supply			208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)			3.5
Indoor MOP			6
Outdoor Power Supply			208/230V,60Hz,1Ph
Outdoor MCA			11
Outdoor MOP			15
Communication Wiring			AWG 14*3 Shielded
Compressor RLA			6.45
Outdoor Fan Motor RLA			2.3
Outdoor Fan Motor W			200
Indoor Fan Motor RLA			2.6
Indoor Fan Motor W			245
System Power Input @ Cooling (W)			1358
MCA: Min. circuit amps (A)		MOCP: Max. over current protection (A)	
RLA: Rated load amps (A)		W: Fan motor rated output (W)	

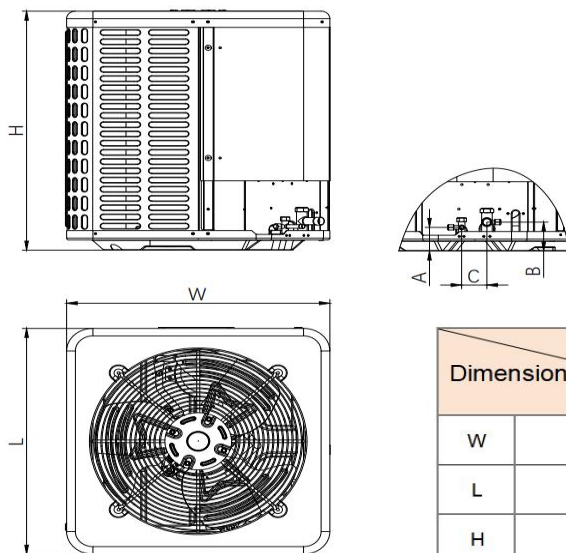
PIPING			
Throttle type(Indoor)			Piston
Throttle type(Outdoor)			Capillary
Liquid Size			9.52mm(3/8in)
Gas Size			19mm(3/4in)
Max. Piping Length(ft/m)			98(30)
Max. Height Difference(ft/m)			20(66)
Max. Pre-charged Length(ft/m)			24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)			46(1.3)
Additional Charge of Refrigerant((oz/ft)/(g/m))			0.52(48)
Connection Method			Welding

Indoor Unit Dimension



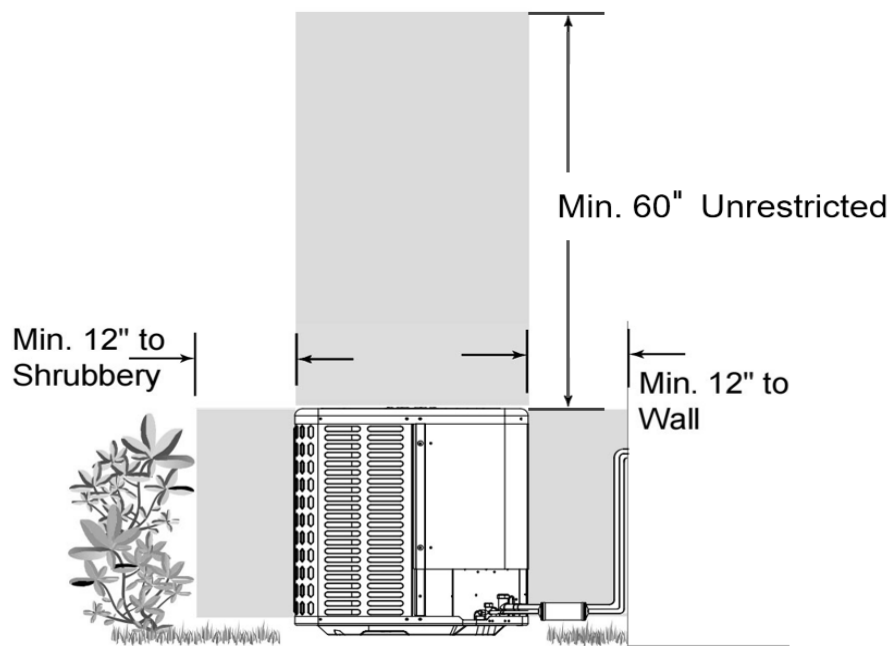
Dimensions \ Model		18/24K		30/36K	
		inch	mm	inch	mm
A	Model Height	36-1/32	915	39-9/16	1005
B	Model width	20-25/32	520	22-3/64	560
C	Supply Air Opening width	14-61/64	380	19-3/32	485
D	Return Air Opening Width	17-33/64	445	18-57/64	480
E	Model Depth	9-29/64	240	9-27/32	250

Outdoor Unit Dimension

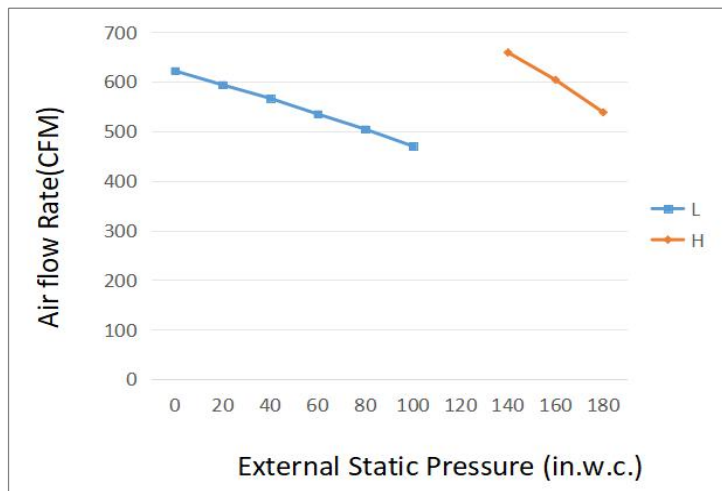


Dimensions \ Model		18K/24K		30K/36K	
		inch	mm	inch	mm
W	Model width	23-5/8	600	29-9/64	740
L	Model length	23-5/8	600	29-9/64	740
H	Model height	25	635	25	635
A	Liquid side valve height	2-31/64	63	2-31/64	63
B	Distance between two valves	3-1/32	77	3-1/32	77
C	Gas side valve height	2-9/32	58	2-9/32	58

Installation Instruction For Outdoor Unit



Fan Performance For Indoor Unit



Features

- 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 20kW
- Easy Maintenance
- Multiple control options available:
 - Wired controller with built-in WiFi
 - Third-Party 24V Thermostat
- Adaptive Control System

3.4 AIRFLOW PERFORMANCE (AIR HANDLERS ARE SUITABLE FOR MOBILE HOME APPLICATIONS)

Airflow performance data is based on cooling performance with a coil and no filter in place. Select performance table for appropriate unit size.

External static applied to unit allows operation within the minimum and maximum limits shown in table below for both cooling and electric heat operation.

Airflow Performance Data

Model	Motor Speed		CFM Wet Coil without filter and Electric Heat											
			External Static Pressure (pa)											
			0	20	40	60	80	100	120	125	140	160	180	200
18	Turbo	CFM	843	814	787	759	734	710	686	679	662	638	614	591
		Current / A	1.51	1.54	1.57	1.6	1.64	1.68	1.71	1.72	1.75	1.79	1.83	1.87
		Power / W	187	192	197	201	206	211	215	217	221	226	231	236
	Hi	CFM	775	743	713	684	656	629	604	600	582	556	530	504
		Current / A	1.2	1.23	1.26	1.30	1.33	1.36	1.40	1.41	1.44	1.47	1.51	1.54
		Power / W	147	151	155	161	164	169	173	174	179	183	187	191
	Mi	CFM	724	690	659	628	600	587	562	555	536	507	485	461
		Current / A	1	1.03	1.06	1.09	1.13	1.16	1.2	1.2	1.22	1.26	1.29	1.32
		Power / W	122	125	129	134	138	141	146	148	150	155	158	161
	Lo	CFM	599	566	535	506	477	447	416	408	384	359	325	289
		Current / A	0.63	0.65	0.68	0.71	0.74	0.77	0.79	0.8	0.82	0.86	0.89	0.92
		Power / W	74	77	81	84	88	91	95	96	98	103	107	111
	Si	CFM	512	475	440	406	372	336	296	287	257	232		
		Current / A	0.45	0.47	0.49	0.52	0.54	0.56	0.59	0.6	0.62	0.63		
		Power / W	50	53	56	59	62	65	68	70	72	74		

Auxilliary Heater Electrical Date

MODEL	kW 208/230	HEATER KIT FLA(A)	MIN CKT AMPS(A)	RATING OF OVERCURRENT PROTECTIVE DEVICE OR HACR BREAKER(A)
EHK-05D EHK-05D1	3.8/5	18.2/20.8	23/26	25/30
EHK-08D EHK-08D1	5.6/7.5	27.9/31.9	35/40	35/40
EHK-15D EHK-15D1	7.5/10	36.3/41.7	46/53	50/60