

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)		900/600	
Indoor Noise Level (High/Low) (dBA)		53/46	
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		KSF200N1VKT83	
Refrigerant		R32	
Refrigerant Oil Charge(mL)		640	
Refrigerant Oil		VG74	
Outdoor Air Flow (Max) (CFM)		2000.0	
Outdoor Noise Level (dBA)		58	
Dimension (W×D×H)	inch	119/126	
	mm	54/57	
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	54/57	

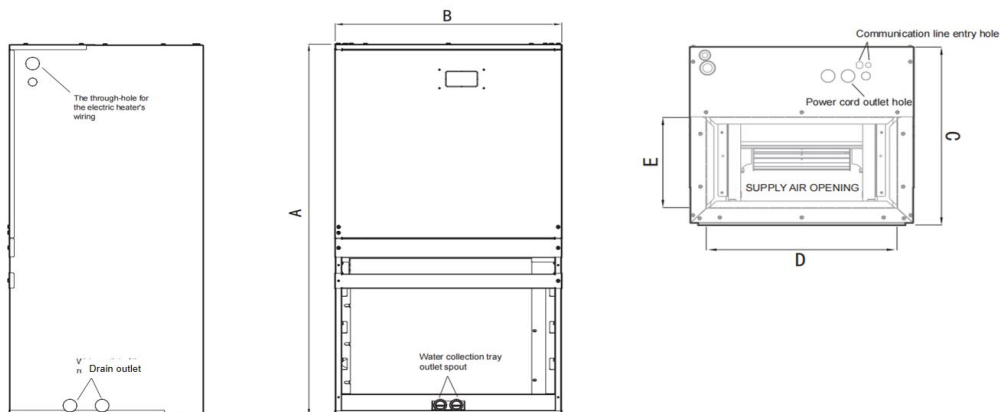
EFFICIENCY			
Cooling			
SEER2	14.3		
EER2	11.7		

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	24000
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		13	
Outdoor MOP		15	
Communication Wiring		AWG 12*3 Shielded	
Compressor RLA		8.35	
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)		1871	
MCA: Min. circuit amps (A)		MOCP: Max. over current protection (A)	
RLA: Rated load amps (A)		W: Fan motor rated output (W)	

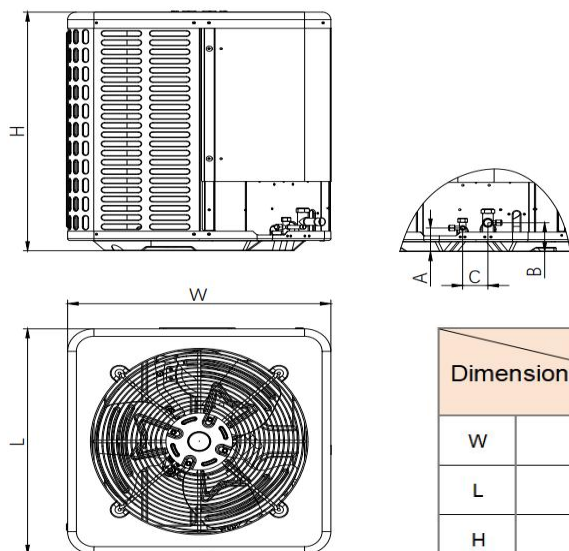
PIPING			
Throttle type(Indoor)		Piston	
Throttle type(Outdoor)		Capillary	
Liquid Size		9.52mm(3/8in)	
Gas Size		19mm(3/4in)	
Max. Piping Length(ft/m)		131(40)	
Max. Height Difference(ft/m)		82(82)	
Max. Pre-charged Length(ft/m)		24.6(7.5)	
Refrigerant Pre-charged Amount(oz/kg)		53(1.5)	
Additional Charge of Refrigerant((oz/ft)/(g/m))		0.52(48)	
Connection Method		Flared	

Indoor Unit Dimension



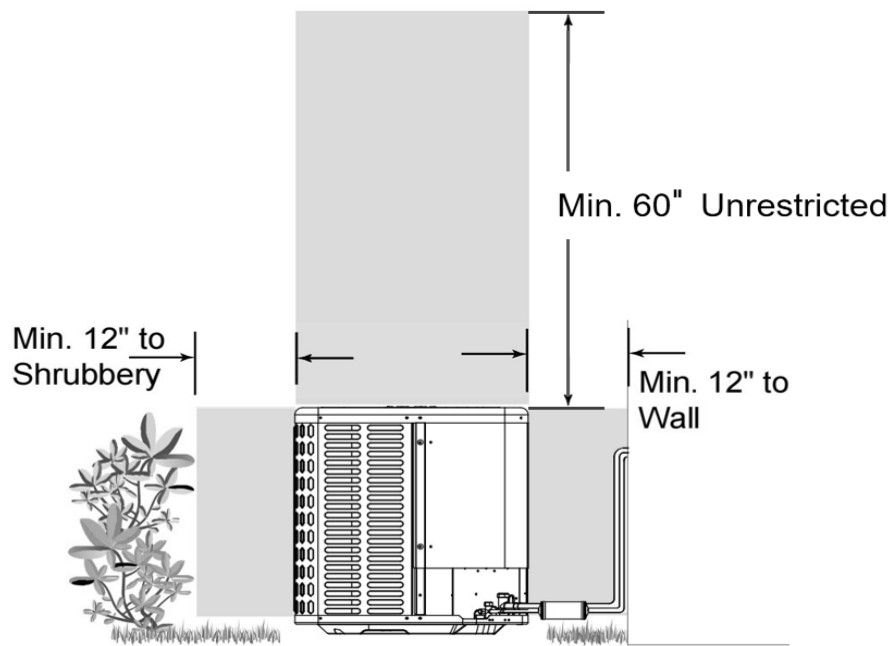
Dimensions \ Model		18/24K		30/36K	
		inch	mm	inch	mm
A	Model Height	36-1/32	915	39-9/16	1005
B	Model width	20-25/32	520	22-3/64	560
C	Supply Air Opening width	14-61/64	380	19-3/32	485
D	Return Air Opening Width	17-33/64	445	18-57/64	480
E	Model Depth	9-29/64	240	9-27/32	250

Outdoor Unit Dimension

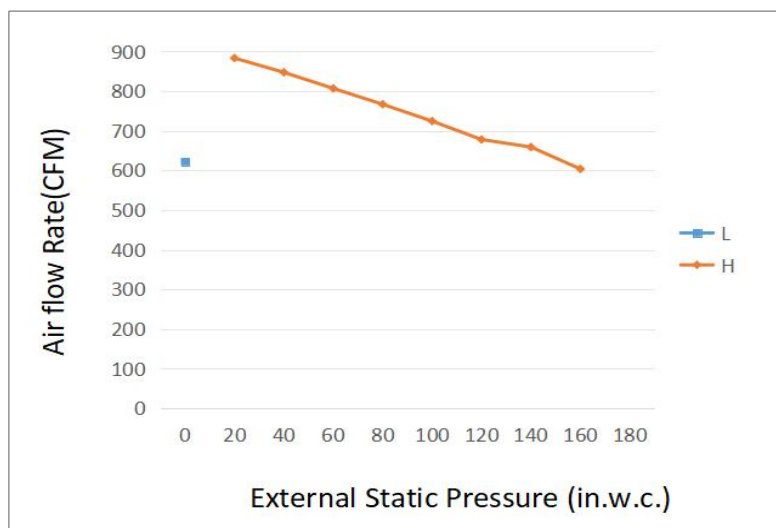


Dimensions \ Model		18K/24K		30K/36K	
		inch	mm	inch	mm
W	Model width	23-5/8	600	29-9/64	740
L	Model length	23-5/8	600	29-9/64	740
H	Model height	25	635	25	635
A	Liquid side valve height	2-31/64	63	2-31/64	63
B	Distance between two valves	3-1/32	77	3-1/32	77
C	Gas side valve height	2-9/32	58	2-9/32	58

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
24	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