

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)			1125/750
Indoor Noise Level (High/Low) (dBA)			50/43
Dimension (W×D×H)	inch		22-3/64×19-3/32×39-9/16
	mm		560×485×1005
Package (W×D×H)	inch		24-21/64×21-9/64×42-53/64
	mm		620×538×1085
Net/Gross Weight	lbs		108/121
	kg		48.9 / 54.9

OUTDOOR SPECIFICATION			
Compressor Type			ROTARY
Compressor Model			KSF230N1VKTB
Refrigerant			R32
Refrigerant Oil Charge(mL)			410
Refrigerant Oil			VG74
Outdoor Air Flow (Max) (CFM)			2650.0
Outdoor Noise Level (dBA)			59
Dimension (W×D×H)	inch		139/148
	mm		63.1/67
Package (W×D×H)	inch		30-5/16×30-5/16×26-3/16
	mm		770×770×665
Net/Gross Weight	lbs		139/148
	kg		63.1/67

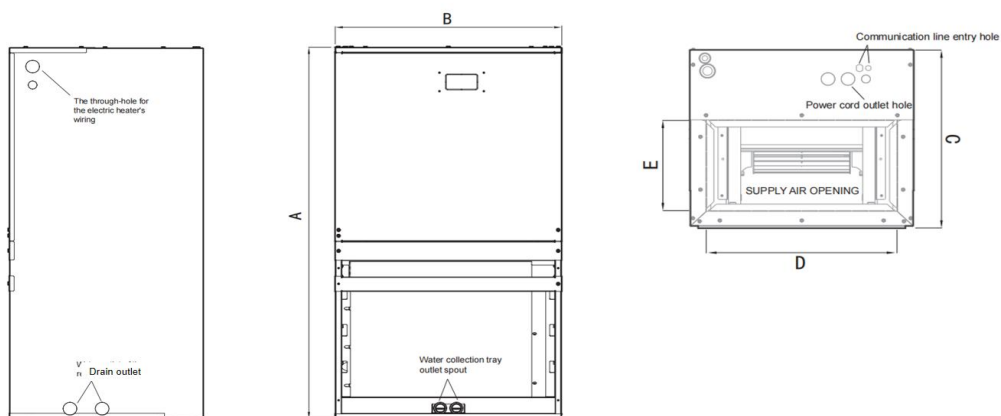
EFFICIENCY			
Cooling			
SEER2	14.3		
EER2	11.7		

PERFORMANCE of Cooling			
Cooling (Btu/hr)			
Rated Capacity			30000
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)			5
Indoor MOP			6
Outdoor Power Supply			208/230V,60Hz,1Ph
Outdoor MCA			16.96877897
Outdoor MOP			25
Communication Wiring			AWG 12*3 Shielded
Compressor RLA			9.85
Outdoor Fan Motor RLA			2.3
Outdoor Fan Motor W			200
Indoor Fan Motor RLA			3.6
Indoor Fan Motor W			368
System Power Input @ Cooling (W)			2144
MCA: Min. circuit amps (A)		MOCP: Max. over current protection (A)	
RLA: Rated load amps (A)		W: Fan motor rated output (W)	

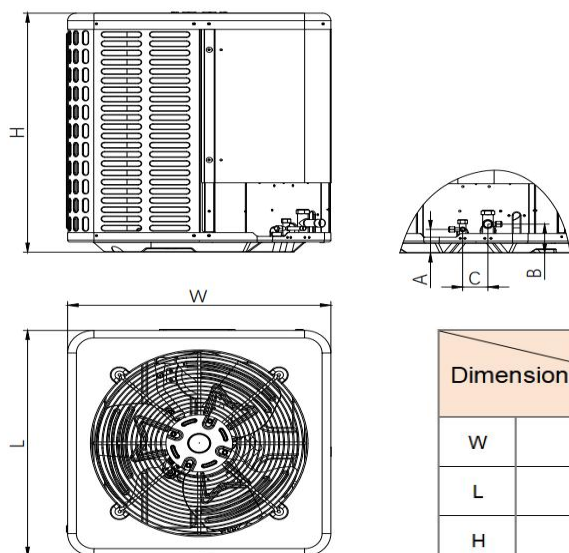
PIPING			
Throttle type(Indoor)			Piston
Throttle type(Outdoor)			Capillary
Liquid Size			9.52mm(3/8in)
Gas Size			19mm(3/4in)
Max. Piping Length(ft/m)			131(40)
Max. Height Difference(ft/m)			82(82)
Max. Pre-charged Length(ft/m)			24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)			76(2.15)
Additional Charge of Refrigerant((oz/ft)/(g/m))			0.52(48)
Connection Method			Flared

Indoor Unit Dimension



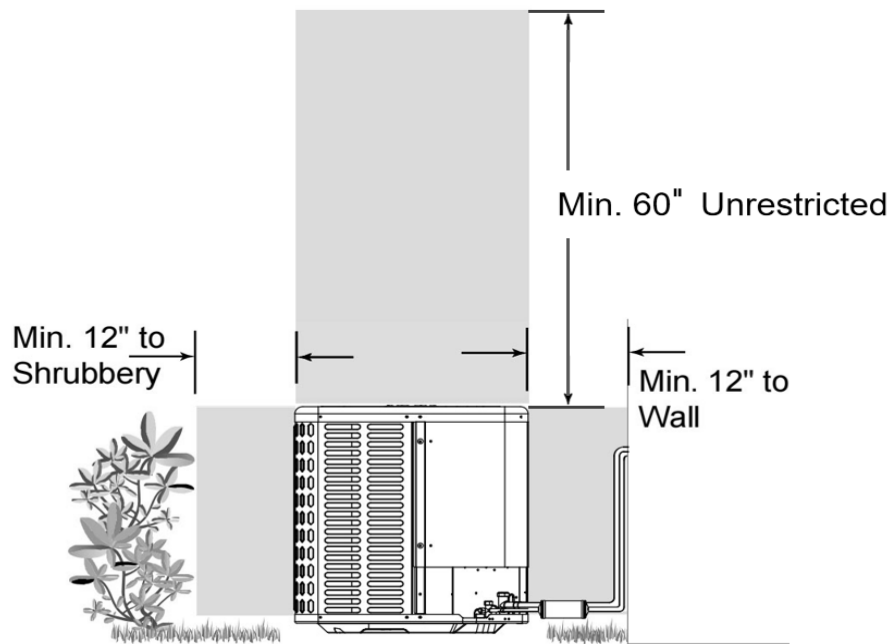
Dimensions \ Model		18/24K		30/36K	
		inch	mm	inch	mm
A	Model Height	36-1/32	915	39-9/16	1005
B	Model width	20-25/32	520	22-3/64	560
C	Supply Air Opening width	14-61/64	380	19-3/32	485
D	Return Air Opening Width	17-33/64	445	18-57/64	480
E	Model Depth	9-29/64	240	9-27/32	250

Outdoor Unit Dimension

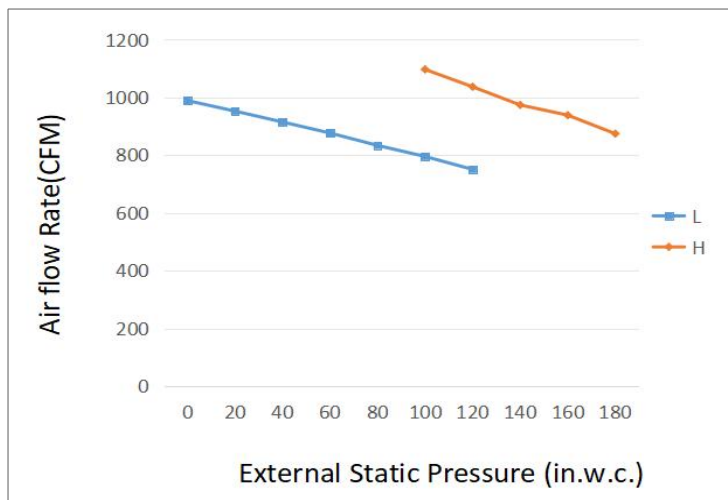


Dimensions \ Model		18K/24K		30K/36K	
		inch	mm	inch	mm
W	Model width	23-5/8	600	29-9/64	740
L	Model length	23-5/8	600	29-9/64	740
H	Model height	25	635	25	635
A	Liquid side valve height	2-31/64	63	2-31/64	63
B	Distance between two valves	3-1/32	77	3-1/32	77
C	Gas side valve height	2-9/32	58	2-9/32	58

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
30	Turbo	CFM	1178	1142	1106	1072	1050	1006	970	962	936	904	871	835
		Current / A	2.07	2.08	2.11	2.13	2.16	2.22	2.27	2.27	2.3	2.33	2.37	2.41
		Power / W	260	267	270	273	279	284	290	291	295	300	305	311
	Hi	CFM	1094	1059	1025	992	959	925	899	895	859	827	794	759
		Current / A	1.72	1.76	1.78	1.83	1.85	1.89	1.92	1.94	1.96	2.01	2.04	2.08
		Power / W	216	221	225	231	236	240	245	246	250	256	261	266
	Mi	CFM	993	953	917	894	845	810	774	764	736	699	654	595
		Current / A	1.34	1.37	1.41	1.44	1.48	1.5	1.54	1.55	1.58	1.60	1.64	1.69
		Power / W	166	170	175	179	184	187	192	193	197	201	206	213
	Lo	CFM	903	866	828	789	750	711	671	660	628	571	514	503
		Current / A	1.07	1.09	1.13	1.16	1.19	1.22	1.25	1.25	1.27	1.32	1.35	1.36
		Power / W	130	134	138	142	146	150	154	153	156	162	167	167
	Si	CFM	796	754	712	671	628	582	545	528	485	438	404	366
		Current / A	0.79	0.81	0.84	0.87	0.89	0.93	0.95	0.97	0.99	1.01	1.03	1.05
		Power / W	93	96	100	104	107	111	115	116	119	122	125	127

Auxiliary Heater Electrical Data

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