

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)		1350/900	
Indoor Noise Level (High/Low) (dBA)		53/46	
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		KSG280N1VMT	
Refrigerant		R32	
Refrigerant Oil Charge(mL)		740	
Refrigerant Oil		VG74	
Outdoor Air Flow (Max) (CFM)		2650.0	
Outdoor Noise Level (dBA)		59	
Dimension (W×D×H)	inch	145/154	
	mm	65.9/70	
Package (W×D×H)	inch	30-5/16×30-5/16×26-3/16	
	mm	770×770×665	
Net/Gross Weight	lbs	145/154	
	kg	65.9/70	

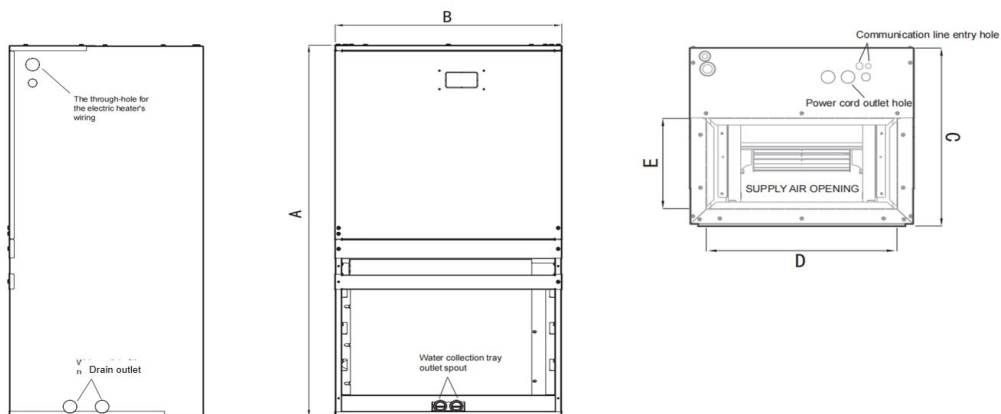
EFFICIENCY			
Cooling			
SEER2	14.3		
EER2	11.7		

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	35000
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		24	
Outdoor MOP		30	
Communication Wiring		AWG 10*3 Shielded	
Compressor RLA		11.65	
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)		2503	
MCA: Min. circuit amps (A)		MOCP: Max. over current protection (A)	
RLA: Rated load amps (A)		W: Fan motor rated output (W)	

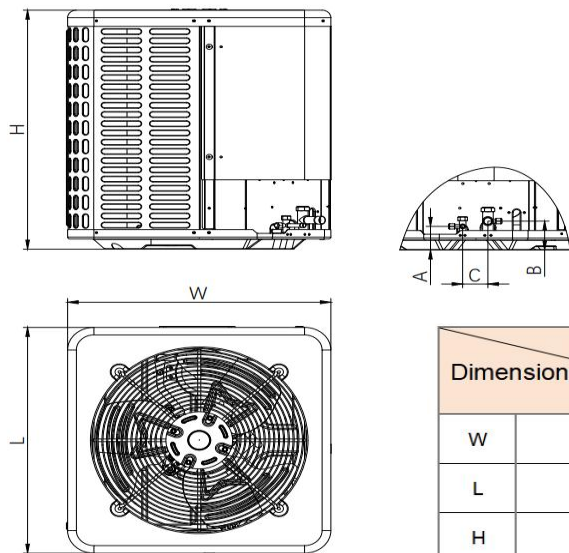
PIPING			
Throttle type(Indoor)		Piston	
Throttle type(Outdoor)		Capillary	
Liquid Size		9.52mm(3/8in)	
Gas Size		19mm(3/4in)	
Max. Piping Length(ft/m)		131(40)	
Max. Height Difference(ft/m)		82(82)	
Max. Pre-charged Length(ft/m)		24.6(7.5)	
Refrigerant Pre-charged Amount(oz/kg)		79(2.25)	
Additional Charge of Refrigerant((oz/ft)/(g/m))		0.52(48)	
Connection Method		Flared	

Indoor Unit Dimension



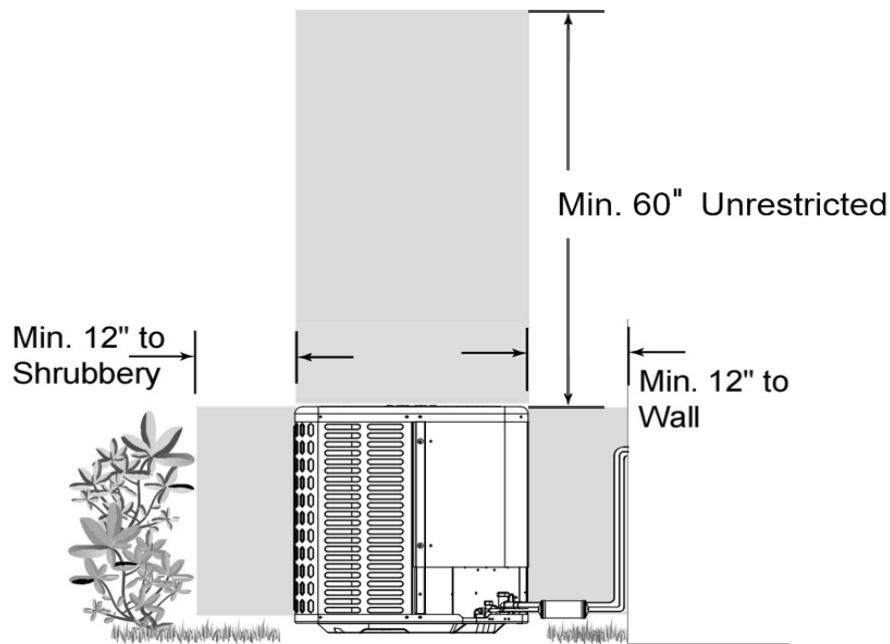
Dimensions \ Model		18/24K		30/36K	
		inch	mm	inch	mm
A	Model Height	36-1/32	915	39-9/16	1005
B	Model width	20-25/32	520	22-3/64	560
C	Supply Air Opening width	14-61/64	380	19-3/32	485
D	Return Air Opening Width	17-33/64	445	18-57/64	480
E	Model Depth	9-29/64	240	9-27/32	250

Outdoor Unit Dimension

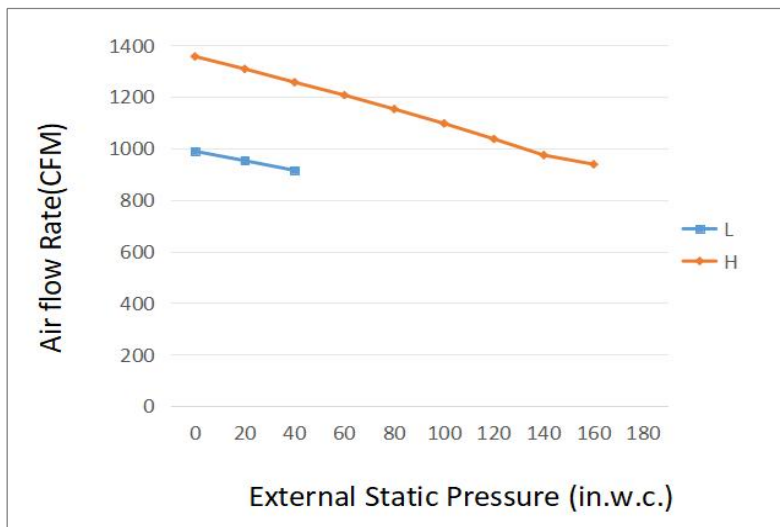


Dimensions \ Model		18K/24K		30K/36K	
		inch	mm	inch	mm
W	Model width	23-5/8	600	29-9/64	740
L	Model length	23-5/8	600	29-9/64	740
H	Model height	25	635	25	635
A	Liquid side valve height	2-31/64	63	2-31/64	63
B	Distance between two valves	3-1/32	77	3-1/32	77
C	Gas side valve height	2-9/32	58	2-9/32	58

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

Electric Heater Specifications

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
36	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

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