

Model Number: BAR17-18-15 (40G) / LUC17-18-15 (40A)

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)		680/400	
Indoor Noise Level (High/Low) (dBA)		38.5/34	
Dimension (W×D×H)	inch	17-33/64×21-1/32×45	
	mm	445×534×1143	
Package (W×D×H)	inch	20-55/64×26-37/64×46-17/64	
	mm	530×675×1175	
Net/Gross Weight	lbs	106.7/117.7	
	kg	48.4/53.4	

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	23-5/8×23-5/8×25	
	mm	600×600×635	
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	

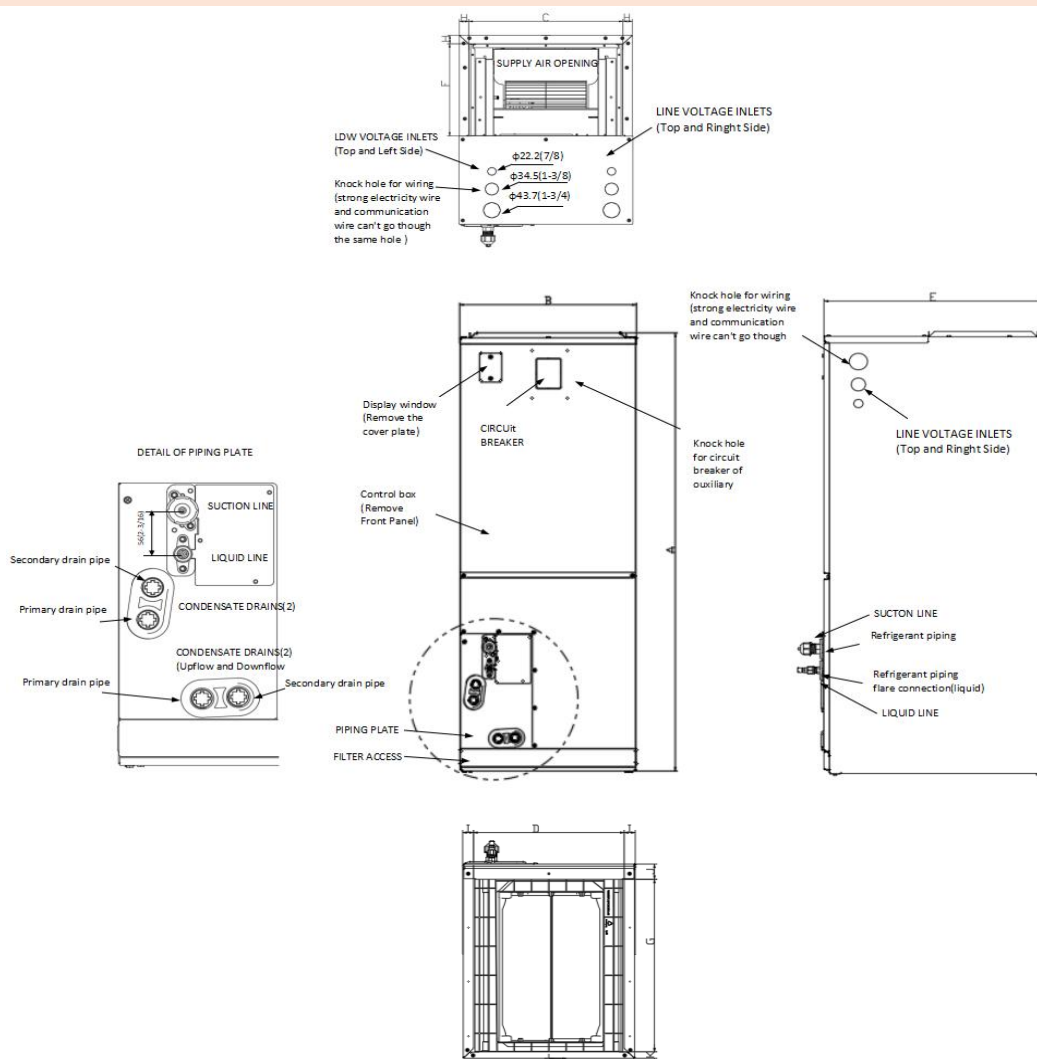
EFFICIENCY			
Cooling			
SEER2	14.3		
EER2	12.5		

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		1.29	
Indoor Fan Motor W		180	
System Power Input @ Cooling (W)		1440	
MCA: Min. circuit amps (A)		MOCP: Max. over current protection (A)	
RLA: Rated load amps (A)		W: Fan motor rated output (W)	

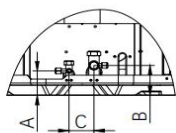
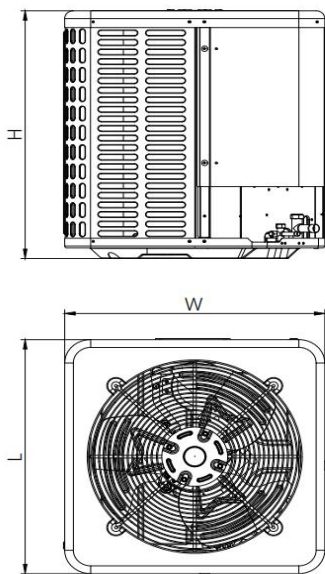
PIPING			
Throttle type(Indoor)		Piston	
Throttle type(Outdoor)		Capillary	
Liquid Size		9.52mm(3/8in)	
Gas Size		19mm(3/4in)	
Max. Piping Length(ft/m)		131(40)	
Max. Height Difference(ft/m)		65.6(20)	
Max. Pre-charged Length(ft/m)		24.6(7.5)	
Refrigerant Pre-charged Amount(oz/kg)		46(1.3)	
Additional Charge of Refrigerant((oz/ft)/(g/m))		0.52(48)	
Connection Method		Welding	

Indoor Unit Dimension



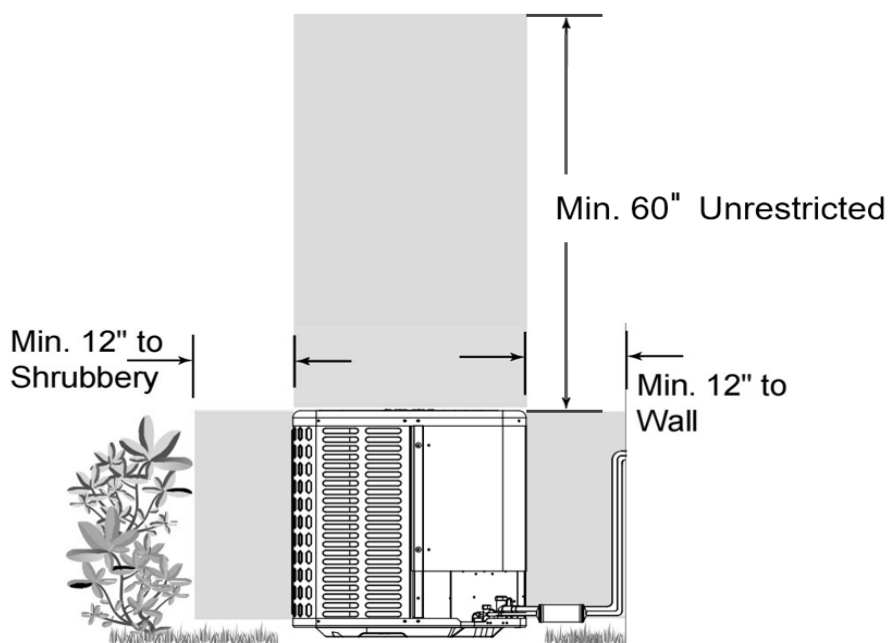
Model		18K/24K	30K/36K	42K/48K/60K
		inch	inch	inch
A	Model Height	45	49-7/32	52-63/64
B	Model Width	17-33/64	21-1/32	24-31/64
C	Supply air opening width	15-5/8	19-9/64	22-19/32
D	Return air opening width	15-25/64	18-47/64	22-23/64
E	Model Depth	21-1/32	21-1/32	21-1/32
F	Supply air opening Depth	10-9/32	10-9/32	10-9/32
G	Return air opening Depth	18-23/32	18-23/32	18-23/32
H	Supply air opening Clearance	15/16	15/16	15/16
I	Return air opening side Clearance	1-1/8	1-1/8	1-1/8
J	Return air opening front Clearance	1-21/32	1-21/32	1-21/32
K	Return air opening back Clearance	45/64	45/64	45/64

Outdoor Unit Dimension

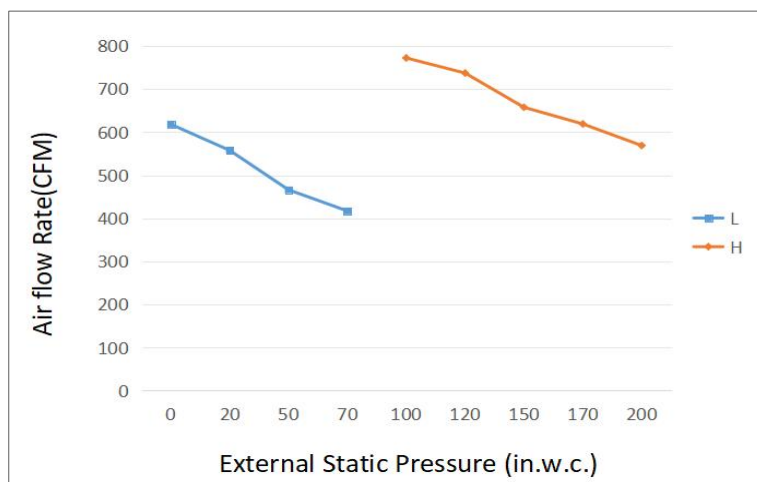


Dimensions \ Model		18K/24K		30K/36K		42K/48K/60K	
		inch	mm	inch	mm	inch	mm
W	Model width	23-5/8	600	29-9/64	740	29-9/64	740
L	Model length	23-5/8	600	29-9/64	740	29-9/64	740
H	Model height	25	635	25	635	32-7/8	835
A	Liquid side valve height	2-31/64	63	2-31/64	63	2-31/64	63
B	Distance between two valves	3-1/32	77	3-1/32	77	3-1/32	77
C	Gas side valve height	2-9/32	58	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

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-05E	3.8/5	18.2/20.8	23/26	25/30
EHK-08E	5.6/7.5	27.9/31.9	35/40	35/40
EHK-10E	7.5/10	36.3/41.7	46/53	50/60
EHK-15E	5.6+5.6/7.5+7.5	27.9+27.9/31.9+31.9	35+35/40+40	35+35/40+40
EHK-20E	7.5+7.5/10+10	36.3+36.3/41.7+41.7	46+46/53+53	50+50/60+60