

ComfortStar® SUBMITTAL DATA SHEET

Model Number: BAR10-42-15(40P) / LUC17-42-15(40N)

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)	1450/1100
Indoor Noise Level (High/Low) (dBA)	53/46
Dimension (W×D×H)	inch 24-31/64×21-1/32×52-63/64
	mm 622×534×1346
Package (W×D×H)	inch 27-7/8×26-37/64×54-9/64
	mm 708×675×1375
Net/Gross Weight	lbs 154.3/170.6
	kg 70.0/77.4

OUTDOOR SPECIFICATION	
Compressor Type	Scroll
Compressor Model	SKDA036N1ULB
Refrigerant	R32
Refrigerant Oil Charge(mL)	740
Refrigerant Oil	VG46
Outdoor Air Flow (Max) (CFM)	2950.0
Outdoor Noise Level (dBA)	60
Dimension (W×D×H)	inch 29-9/64×29-9/64×32-7/8
	mm 740×740×835
Package (W×D×H)	inch 30-5/16×30-5/16×34-1/16
	mm 770×770×865
Net/Gross Weight	lbs 157/168
	kg 71/76

EFFICIENCY			
Cooling			
SEER2	14.3		
EER2	11.7		

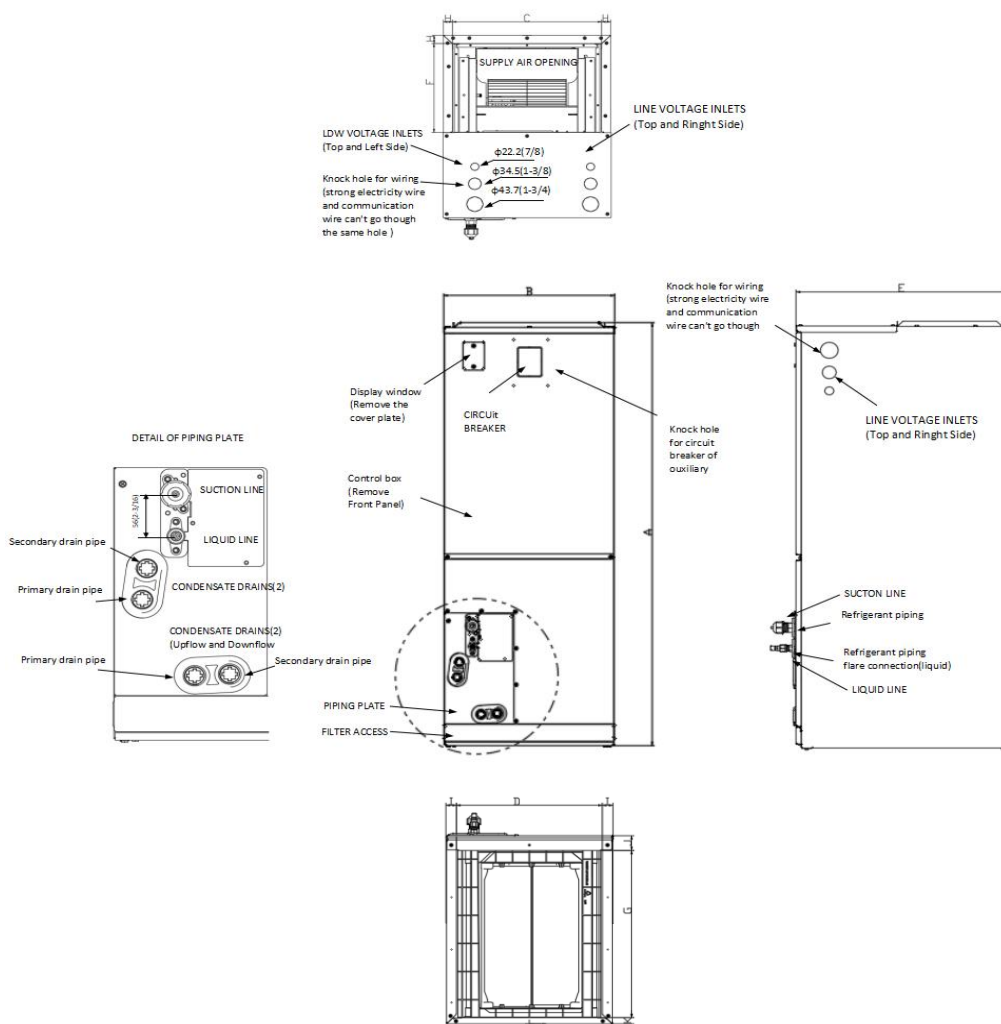
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	42000
Standard Operating Range(°F)	23~125
Rated Cooling Conditions:	
Indoor: 80°F DB/67°F WB	
Outdoor: 95°F DB/75°F WB	

ELECTRICAL	
Indoor Power Supply	208/230V, 60Hz, 1Ph
Indoor MCA 115V/(208/230V)	7
Indoor MOP	10
Outdoor Power Supply	208/230V, 60Hz, 1Ph
Outdoor MCA	25
Outdoor MOP	35
Communication Wiring	AWG 8*3 Shielded
Compressor RLA	10.9
Outdoor Fan Motor RLA	2.3
Outdoor Fan Motor W	200
Indoor Fan Motor RLA	3.48
Indoor Fan Motor W	520
System Power Input @ Cooling (W)	3590
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

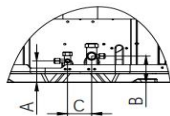
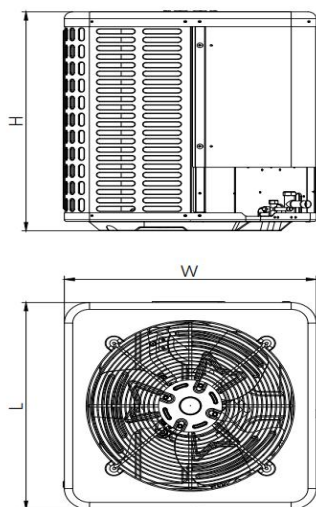
Throttle type(Indoor)	
Throttle type(Outdoor)	Capillary
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	164(50)
Max. Height Difference(ft/m)	82(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	92(2.6)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.52(48)
Connection Method	Flared

Indoor Unit Dimension



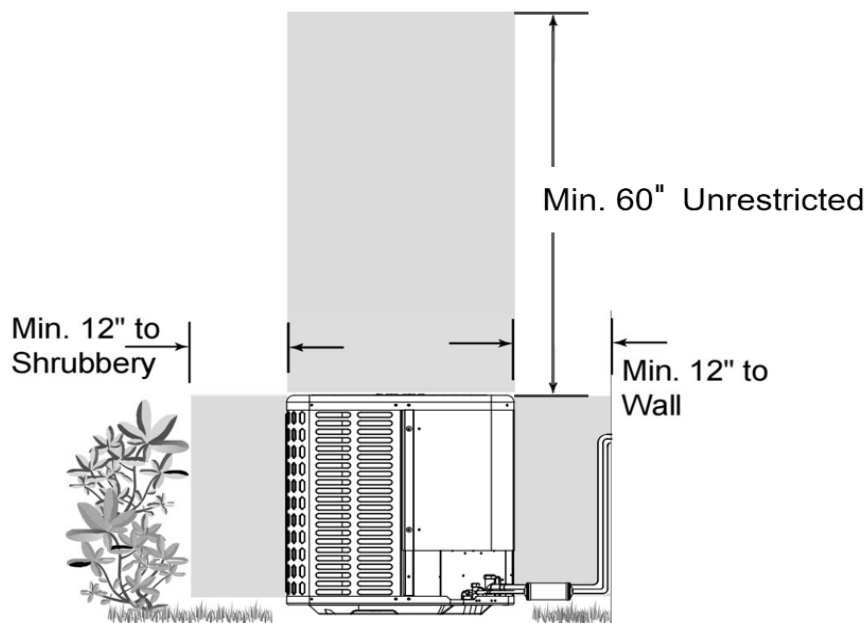
		Model	18K/24K	30K/36K	42K/48K/60K
Dimensions			inch	inch	inch
A	Model Height		45	49-7/32	52-63/64
B	Model Width		17-33/64	21-1/32	24-31/64
C	Supply air opening width		15-5/8	19-9/64	22-19/32
D	Return air opening width		15-25/64	18-47/64	22-23/64
E	Model Depth		21-1/32	21-1/32	21-1/32
F	Supply air opening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

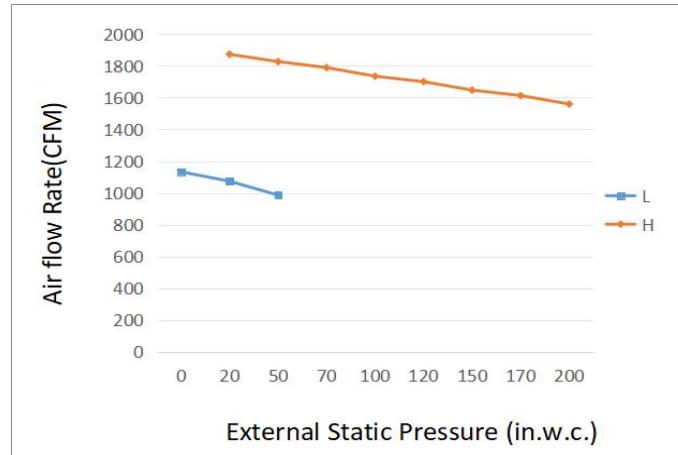


Dimensions \ Model		18K/24K		30K/36K		42K/48K/60K	
		inch	mm	inch	mm	inch	mm
W	Model width	23-5/8	600	29-9/64	740	29-9/64	740
L	Model length	23-5/8	600	29-9/64	740	29-9/64	740
H	Model height	25	635	25	635	32-7/8	835
A	Liquid side valve height	2-31/64	63	2-31/64	63	2-31/64	63
B	Distance between two valves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