



Submittal Data Sheet

Indoor Unit Model#: AC-I-60AH14

Outdoor Unit Model#: AC-I-60AC14

60K R32 Ducted Air Handler & 60K Top Discharge AC-Cooling Only Condenser

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

System Product Code: 81017555348
Indoor Unit Product Code: 81017555270
Outdoor Unit Product Code: 810175554143



EFFICIENCY RATINGS

Cooling	
SEER2	13.80
EER2	11.70

COOLING PERFORMANCE & OPERATING TEMPERATURE

Cooling (Btu/hr)		
Rated Cooling Capacity*	52500	
Cooling Capacity at 109°F (43°C)	48500	
*Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB	
Ambient Temperature Range (Cooling Operation)		
Indoor Unit	°F	60°F ~ 90°F
	°C	16°C ~ 32°C
Outdoor Unit	°F	5°F ~ 131°F
	°C	-15°C ~ 55°C

ELECTRICAL SPECIFICATIONS

Outdoor Unit Power Supply	V, Ph, Hz	208/230V, 60Hz, 1 Ph
Indoor Unit Power Supply	V, Ph, Hz	208/230V, 60Hz, 1 Ph
Communication Wiring	Type	AWG 25x3 Shielded
ODU Minimum Circuit Ampacity (MCA)	A	33.0
ODU Max. Overcurrent Protection (Max Fuse or Breaker)	A	50
System Power Input (W)	W	4487
Rated Current (A)	A	20.50

INDOOR UNIT SPECIFICATIONS

Indoor Throttle	Type	Piston
Indoor Fan Airflow (Hi/Lo)	CFM	1740 / 750
Indoor Noise Level (Hi/Lo)	dB(A)	53.0 / 46.0
Indoor Fan Motor Output	W	560
Fan Motor Rated Load Amps (RLA)	A	5.4
Unit Dimensions (WxDxH)	in	24.49 x 21.02 x 52.99
	mm	622 x 534 x 1346
Packing Dimensions (WxDxH)	inch	27.87 x 26.57 x 54.13
	mm	708 x 675 x 1375
Net Weight	lbs	154.3
	kg	70.0
Gross Weight	lbs	170.6
	kg	77.4

OUTDOOR UNIT SPECIFICATIONS

Outdoor Throttle	Type	Capillary
Outdoor Fan Airflow (Max.)	CFM	2950
Outdoor Noise Level	dB(A)	60
Compressor	Type	Scroll
Compressor Capacity	W	19620
Compressor Input Power	W	3090
Compressor Rated Load Amps (RLA)	A	13.6
Compressor Refrigerant Oil	Type	VG46
Compressor Refrigerant Oil Volume	ml	1240
Outdoor Fan Motor Output	W	200
Fan Motor Rated Load Amps (RLA)	A	2.3
Unit Dimensions (WxDxH)	in	29.13 x 29.13 x 32.87
	mm	740 x 740 x 835
Packing Dimensions (WxDxH)	in	30.32 x 30.32 x 34.06
	mm	770 x 770 x 865
Net Weight	lbs	182
	kg	82.5
Gross Weight	lbs	193
	kg	87.5

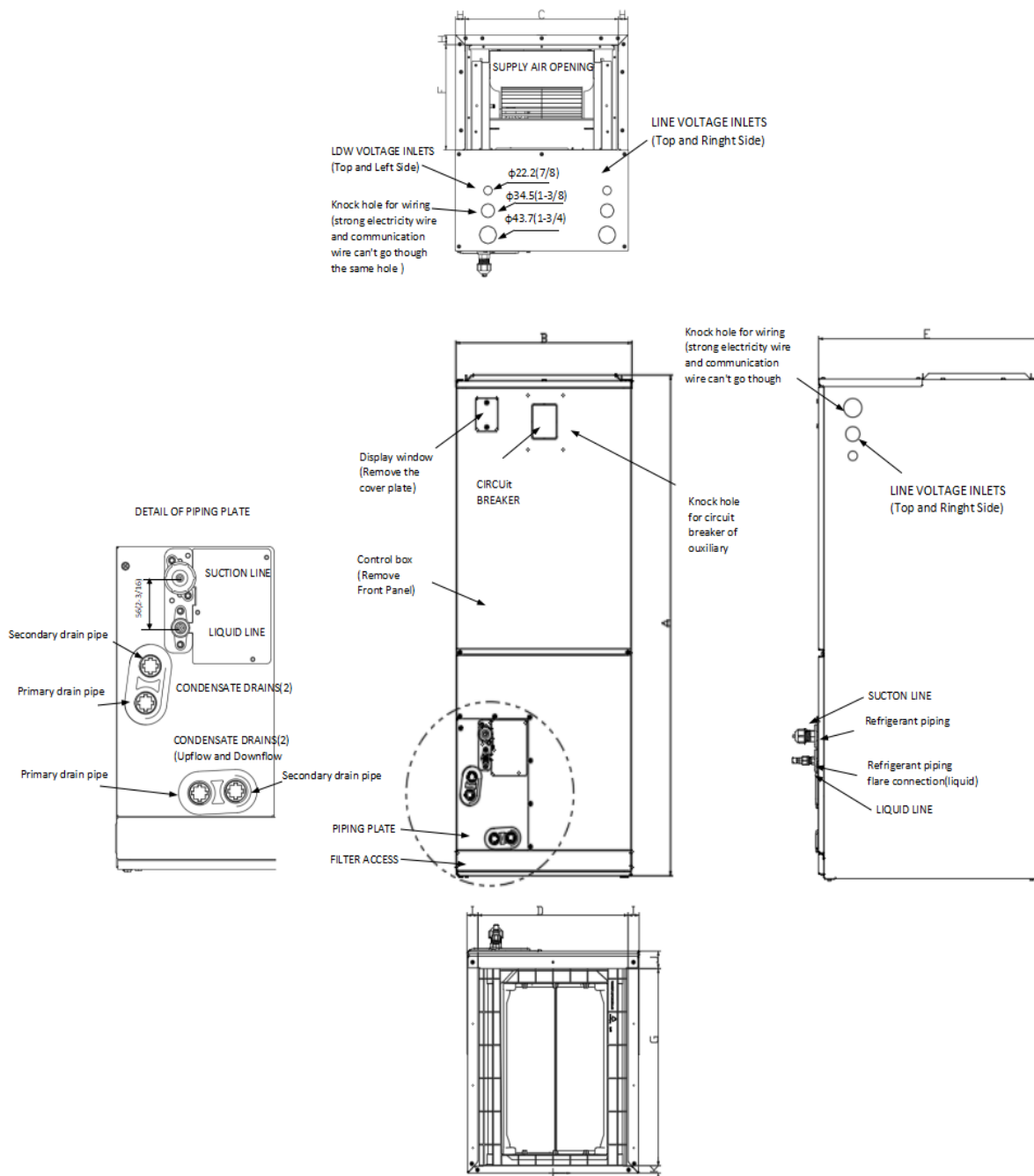
REFRIGERANT PIPING SPECIFICATIONS

Refrigerant	Type	R32
Refrigerant Charge Amount (Outdoor unit pre-charged)	oz	92
	kg	2.6
Additional Charge of Refrigerant	oz/ft	0.52
	g/m	48
N.A. Design Pressure	psi	609 / 174
	in	3/8"
Liquid Side	mm	9.52
	in	3/4"
Gas Side	mm	19
	ft	213
Max. Piping Length	m	65
	ft	98.4
Max. Height Difference	m	30
	ft	24.6
Max. Pre-Charged Piping Length	ft	24.6
	m	7.5
Connection Method	Type	Flared

Features

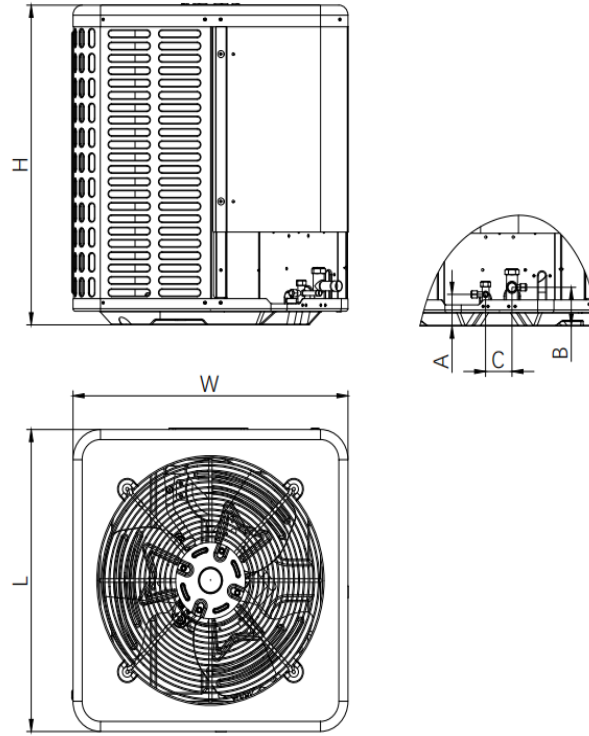
- Multi-position installation: horizontal (left or right), vertical (up or down)
- ECM fan motor with constant torque technology
- External static pressure up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency (optional)
- Optional Auxiliary heat kit up to 20kW
- Easy Maintenance
- Multiple control options available:
 - Wired controller with built-in WiFi
 - Third-Party 24V Thermostat
- Adaptive Control System

Indoor Unit Dimensions



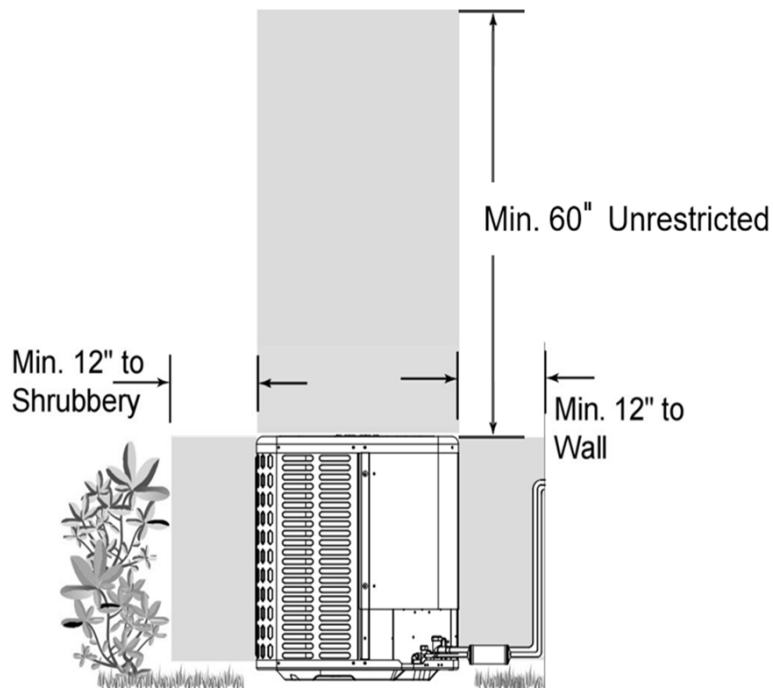
Dimensions		Model		18K/24K		30K/36K		48K/60K	
				inch	mm	inch	mm	inch	mm
A	Model Height			45-3/4	1162	49-49/64	1264	53-47/64	1365
B	Model width			17-41/64	448	21-9/64	537	24-39/64	625
C	Supply Air Opening width			15-5/8	397	19-9/64	486	22-19/32	574
D	Return Air Opening Width			15-25/64	391	18-47/64	476	22-23/64	568
E	Model Depth			21-7/64	536	21-7/64	536	21-7/64	536
F	Supply Air Opening Depth			10-9/32	261	10-9/32	261	10-9/32	261
G	Return Air Opening Depth			18-23/32	475.5	18-23/32	475.5	18-23/32	475.5
H	Supply Air Opening Clearance			15/16	24	15/16	24	15/16	24
I	Return Air Opening Side Clearance			1-1/8	28.5	1-1/8	28.5	1-1/8	28.5
J	Return Air Opening Front Clearance			1-21/32	42	1-21/32	42	1-21/32	42
K	Return Air Opening Back Clearance			45/64	18	45/64	18	45/64	18

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

Outdoor Unit Installation Instructions & Clearance Requirements



Indoor Unit Fan Performance

