



Submittal Data Sheet

Indoor Unit Model#: AC-I-24AH14

Outdoor Unit Model#: AC-I-24AC14

24K R32 Ducted Air Handler & 24K Top Discharge AC-Cooling Only Condenser

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

System Product Code: 81017555294
Indoor Unit Product Code: 81017555225
Outdoor Unit Product Code: 810175554099



EFFICIENCY RATINGS

Cooling	
SEER2	14.30
EER2	11.70

COOLING PERFORMANCE & OPERATING TEMPERATURE

Cooling (Btu/hr)		
Rated Cooling Capacity*	24000	
Cooling Capacity at 109°F (43°C)	22000	
*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	13.0
ODU Max. Overcurrent Protection (Max Fuse or Breaker)	A	15
System Power Input (W)	W	2051
Rated Current (A)	A	9.40

INDOOR UNIT SPECIFICATIONS

Indoor Throttle	Type	Piston
Indoor Fan Airflow (Hi/Lo)	CFM	850 / 680
Indoor Noise Level (Hi/Lo)	dB(A)	42.0 / 38.0
Indoor Fan Motor Output	W	180
Fan Motor Rated Load Amps (RLA)	A	1.78
Unit Dimensions (W×D×H)	in	17.52 x 21.02 x 45.00
	mm	445 x 534 x 1143
Packing Dimensions (W×D×H)	inch	20.87 x 26.57 x 46.26
	mm	530 x 675 x 1175
Net Weight	lbs	106.7
	kg	48.4
Gross Weight	lbs	117.7
	kg	53.4

OUTDOOR UNIT SPECIFICATIONS

Outdoor Throttle	Type	Capillary
Outdoor Fan Airflow (Max.)	CFM	2000
Outdoor Noise Level	dB(A)	58
Compressor	Type	Rotary
Compressor Capacity	W	7530
Compressor Input Power	W	1710
Compressor Rated Load Amps (RLA)	A	8.35
Compressor Refrigerant Oil	Type	VG74
Compressor Refrigerant Oil Volume	ml	640
Outdoor Fan Motor Output	W	200
Fan Motor Rated Load Amps (RLA)	A	2.3
Unit Dimensions (W×D×H)	in	23.62 x 23.62 x 25.00
	mm	600 x 600 x 635
Packing Dimensions (W×D×H)	in	25.98 x 25.98 x 26.18
	mm	660 x 660 x 665
Net Weight	lbs	119
	kg	54.0
Gross Weight	lbs	126
	kg	57.0

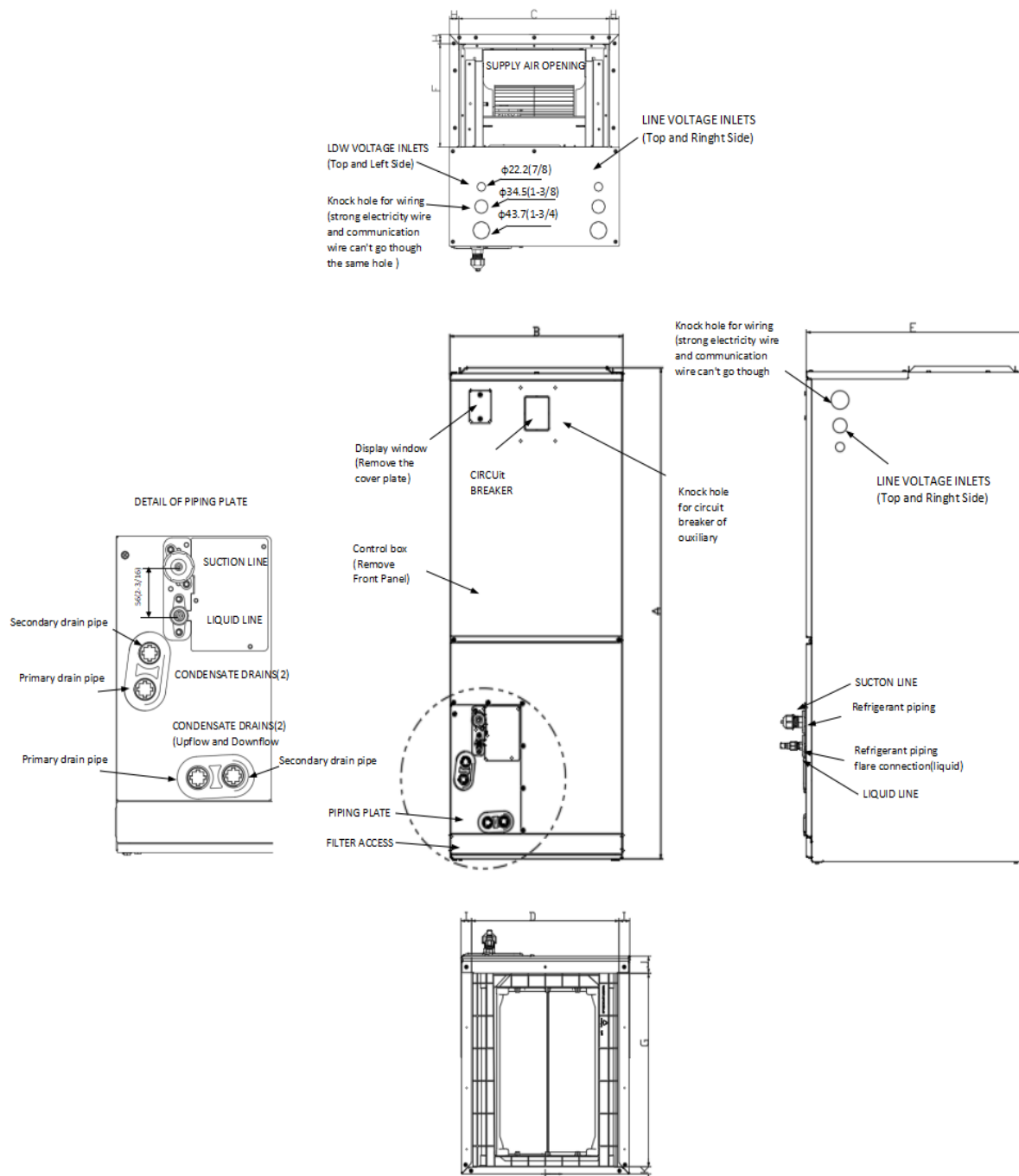
REFRIGERANT PIPING SPECIFICATIONS

Refrigerant	Type	R32
Refrigerant Charge Amount (Outdoor unit pre-charged)	oz	53
	kg	1.5
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
Max. Piping Length	ft	131
	m	40
Max. Height Difference	ft	65.6
	m	20
Max. Pre-Charged Piping Length	ft	24.6
	m	7.5
Connection Method	Type	Flared

Features

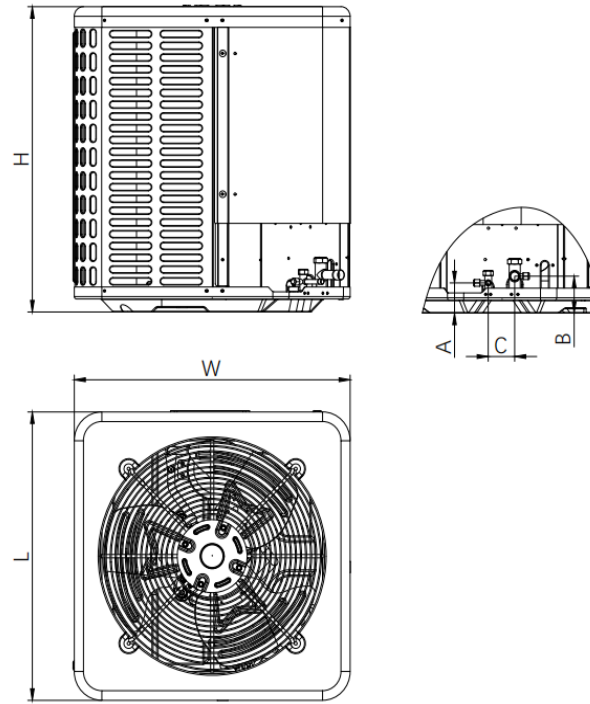
- Multi-position installation: horizontal (left or right), vertical (up or down)
- ECM fan motor with constant torque technology
- External static pressure up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency (optional)
- Optional Auxiliary heat kit up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

Indoor Unit Dimensions



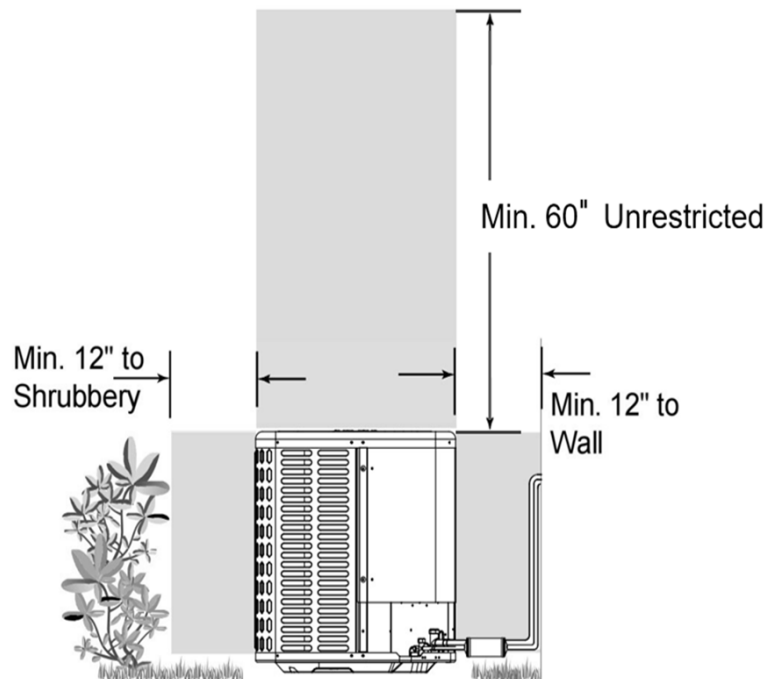
Dimensions		Model		18K/24K		30K/36K		48K/60K	
				inch	mm	inch	mm	inch	mm
A	Model Height			45-3/4	1162	49-49/64	1264	53-47/64	1365
B	Model width			17-41/64	448	21-9/64	537	24-39/64	625
C	Supply Air Opening width			15-5/8	397	19-9/64	486	22-19/32	574
D	Return Air Opening Width			15-25/64	391	18-47/64	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

