

Submittal Data Sheet

Indoor Unit Model#: AC-I-48AH14
Outdoor Unit Model#: AC-I-48AC14

48K R32 Ducted Air Handler & 48K Top Discharge AC-Cooling Only Condenser

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

System Product Code: 81017555331
Indoor Unit Product Code: 81017555263
Outdoor Unit Product Code: 810175554136



INDOOR UNIT SPECIFICATIONS

Indoor Throttle	Type	Piston
Indoor Fan Airflow (Hi/Lo)	CFM	1450 / 1100
Indoor Noise Level (Hi/Lo)	dB(A)	53.0 / 46.0
Indoor Fan Motor Output	W	560
Fan Motor Rated Load Amps (RLA)	A	3.48
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	15860
Compressor Input Power	W	2540
Compressor Rated Load Amps (RLA)	A	10.9
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	176
	kg	80.0
Gross Weight	lbs	187
	kg	85.0

EFFICIENCY RATINGS

Cooling	
SEER2	14.30
EER2	11.70

COOLING PERFORMANCE & OPERATING TEMPERATURE

Cooling (Btu/hr)		
Rated Cooling Capacity*	48000	
Cooling Capacity at 109°F (43°C)	44200	
*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	27.0
ODU Max. Overcurrent Protection (Max Fuse or Breaker)	A	40
System Power Input (W)	W	4103
Rated Current (A)	A	18.80

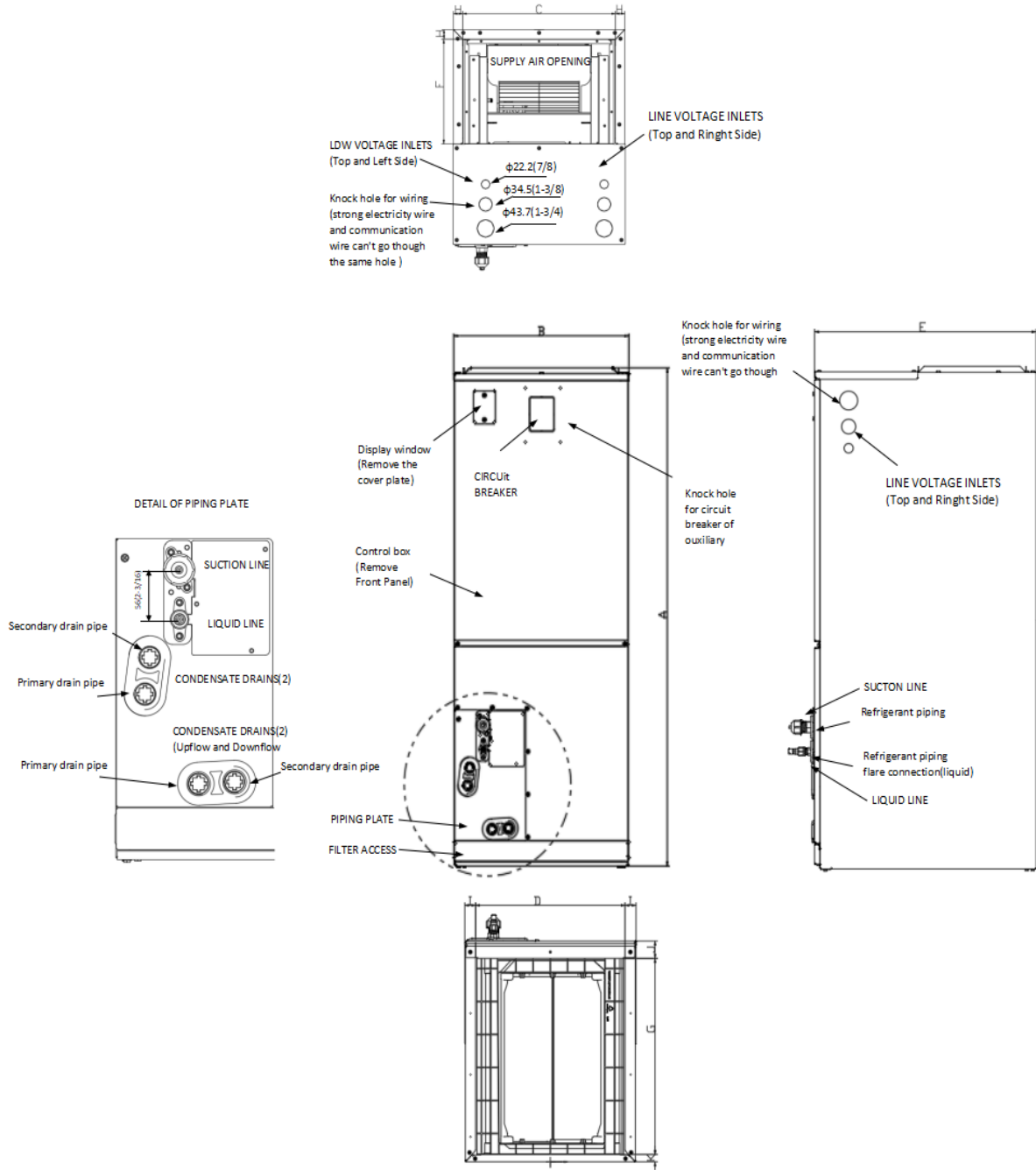
REFRIGERANT PIPING SPECIFICATIONS

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
Liquid Side	in	3/8"
	mm	9.52
Gas Side	in	3/4"
	mm	19
Max. Piping Length	ft	213
	m	65
Max. Height Difference	ft	98.4
	m	30
Max. Pre-Charged Piping Length	ft	24.6
	m	7.5
Connection Method	Type	Flared

Features

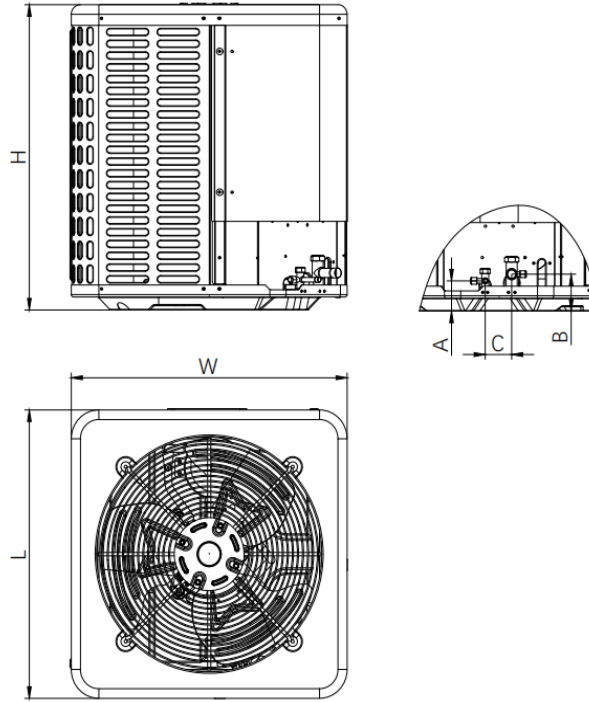
- Multi-position installation: horizontal (left or right), vertical (up or down)
- ECM fan motor with constant torque technology
- External static pressure up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency (optional)
- Optional Auxiliary heat kit up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

Indoor Unit Dimensions



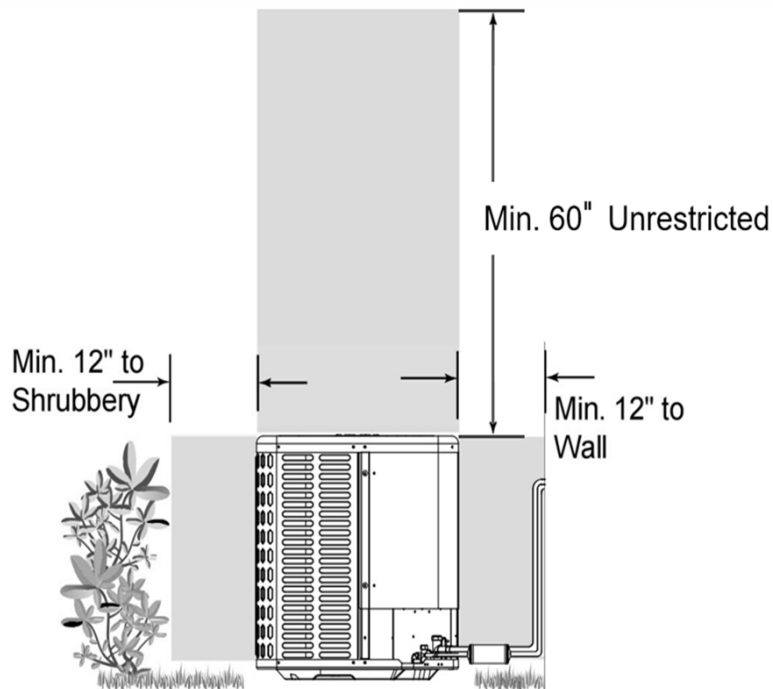
Dimensions		Model	18K/24K		30K/36K		48K/60K	
			inch	mm	inch	mm	inch	mm
A	Model Height		45-3/4	1162	49-49/64	1264	53-47/64	1365
B	Model width		17-41/64	448	21-9/64	537	24-39/64	625
C	Supply Air Opening width		15-5/8	397	19-9/64	486	22-19/32	574
D	Return Air Opening Width		15-25/64	391	18-47/64	476	22-23/64	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	29-9/64	740
L	Model length	23-5/8	600	29-9/64	740	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

