



# Submittal Data Sheet

Indoor Unit Model#: ACiQ-48TD-AH32  
Outdoor Unit Model#: ACiQ-48TD-HP32

## 48K (230V) R32 Top Discharge Air Handler & Condenser

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

System Product Code: 810175554372  
Indoor Unit Product Code: 810175554297  
Outdoor Unit Product Code: 810175554334



### SYSTEM PERFORMANCE

#### Cooling Performance

Rated Cooling Capacity at 95°F (35°C)	Btu/h	48000
Rated Cooling Capacity Range	Btu/h	14000 ~ 50000
SEER2 at 95°F (35°C)	Btu/W.h	15.2
EER2 at 95°F (35°C)	Btu/W.h	8.0

#### Heating Performance

Rated Heating Capacity at 47°F (8.3°C)	Btu/h	48000
Rated Heating Capacity at 17°F (-8.3°C)	Btu/h	35000
Rated Heating Capacity Range	Btu/h	14000 ~ 50000
HSPF2-Region IV	Btu/W.h	8.1
HSPF2-Region V	Btu/W.h	7.0
COP2 at 47°F (8.3°C)	W/W	3.0
COP2 at 5°F (-15°C)	W/W	1.8

### AMBIENT OPERATING TEMPERATURE RANGE

Cooling Operating Temperature Range	°F	5°F ~ 125°F
	°C	-15°C ~ 52°C
Heating Operating Temperature Range	°F	-4°F ~ 80°F
	°C	-20°C ~ 27°C

### ELECTRICAL SPECIFICATIONS

Power Supply	V, Ph, Hz	208/230V, 1 Ph, 60 Hz
Min/Max Volts	V	187 / 253
ODU Minimum Circuit Ampacity (MCA)	A	35
ODU Max. Overcurrent Protection (Max Fuse or Breaker)	A	60

### INDOOR UNIT SPECIFICATIONS

ESP (Up to)	in. WC	0.8
Indoor Fan Airflow	CFM	1500
Sound Pressure Rating	dB(A)	60
Moisture Removal/Dehumidification	kg/h	5.0
Fan Motor Type	--	AC
Fan Motor Power	hp	1/2
Fan Material	--	Metal
Fan Type	--	Centrifugal
Fan Diameter	in	15-1/8"
Fan Width	in	13-1/4"
Unit Dimensions (WxDxH)	in	24-1/2" x 56" x 21"
	mm	622 x 1422 x 533
Packing Dimensions (WxDxH)	inch	29-5/16" x 62-9/16" x 26-1/4"
	mm	745 x 1589 x 667
Net Weight	lbs	157.6
	kg	71.5
Gross Weight	lbs	198.4
	kg	90.0

### OUTDOOR UNIT SPECIFICATIONS

Outdoor Sound Pressure Rating	dB	69
Throttle Type	--	EEV
Compressor Type	--	Variable Rotary
Compressor Input	W	3540
Compressor Rated Current (RLA)	A	12.2
Compressor Locked Rotor Amp (LRA)	A	26
Compressor Refrigerant Oil Volume	ml	1050
Fan Motor Type	--	DC
Fan Motor Power	hp	1/4
Fan Motor Rated RPM	rpm	1050
Fan Motor Full Load Amps (FLA)	A	1.1
Unit Dimensions (WxDxH)	in	29-1/8" x 33-3/16" x 29-1/8"
	mm	740 x 843 x 740
Packing Dimensions (WxDxH)	in	30-1/4" x 39-1/2" x 30 1/4"
	mm	767 x 1003 x 767
Net Weight	lbs	183.0
	kg	83.0
Gross Weight	lbs	216.1
	kg	98.0

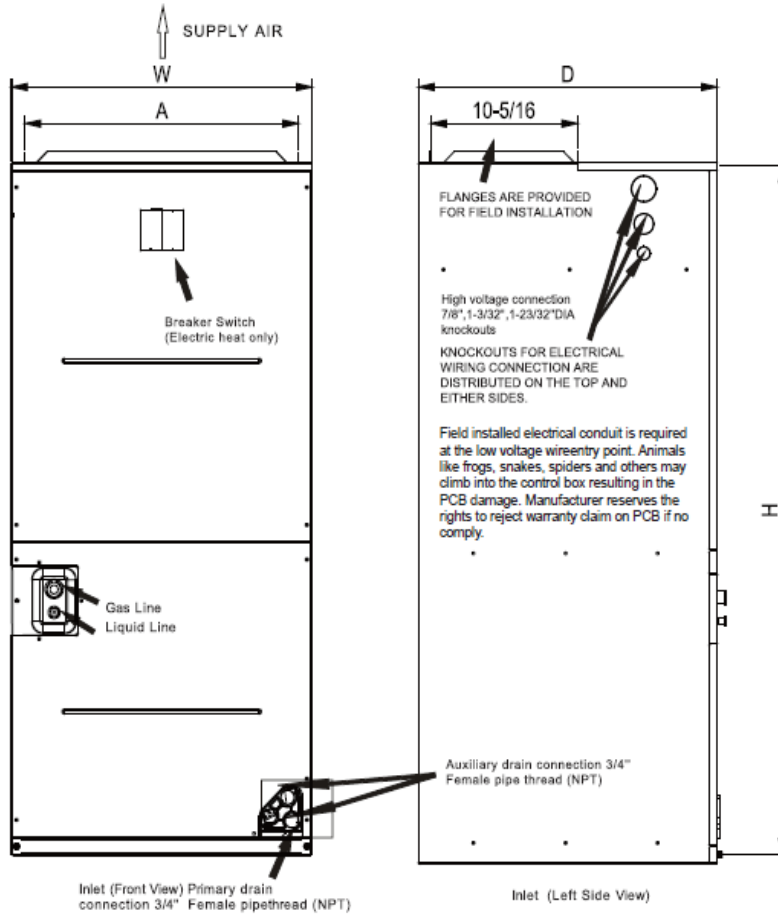
### REFRIGERANT PIPING SPECIFICATIONS

Refrigerant	Type	R32
Refrigerant Charge Amount (Outdoor unit pre-charged)	oz	123.5
	g	3500
Additional Charge of Refrigerant	oz/ft	0.38
	g/m	35.34
Max. Allowable Pressure	Mpa	4.3
Connection Valve Size - Liquid/Gas (Indoor & Outdoor Unit)	in	0.375 (3/8") / 0.75 (3/4")*
	mm	9.53 / 19.05
Refrigerant Piping Size - Liquid/Gas (Indoor & Outdoor Unit)	in	0.375 (3/8") / 0.875 (7/8")*
	mm	9.53 / 22.23
Min./Max. Piping Length	ft	15 / 164
	m	4.6 / 50
Max. Height Difference	ft	82
	m	25
Connection Method	Type	Flare to Braze

\* Adaptor fitting is used to increase refrigerant piping connection point of valve from 3/4" to 7/8".

### Indoor Unit Dimensions

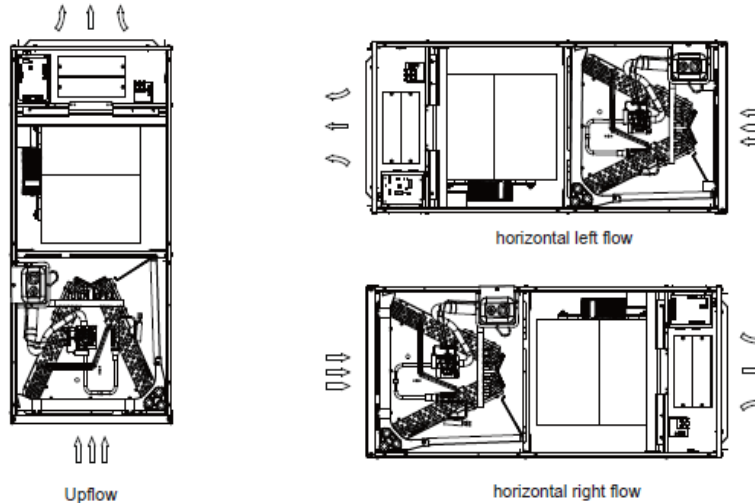
**NOTE: 25" CLEARANCE IS REQUIRED IN THE FRONT OF THE UNIT FOR FILTER AND COIL MAINTENANCE**



Model	Dimensions (in.)					
	H	W	D	A	Liquid Line Connection	Gas Line Connection
24K 36K	46-1/2	21	21	19-1/4	3/8	3/4
48K 54K	56	24-1/2	21	22-3/4	3/8	7/8

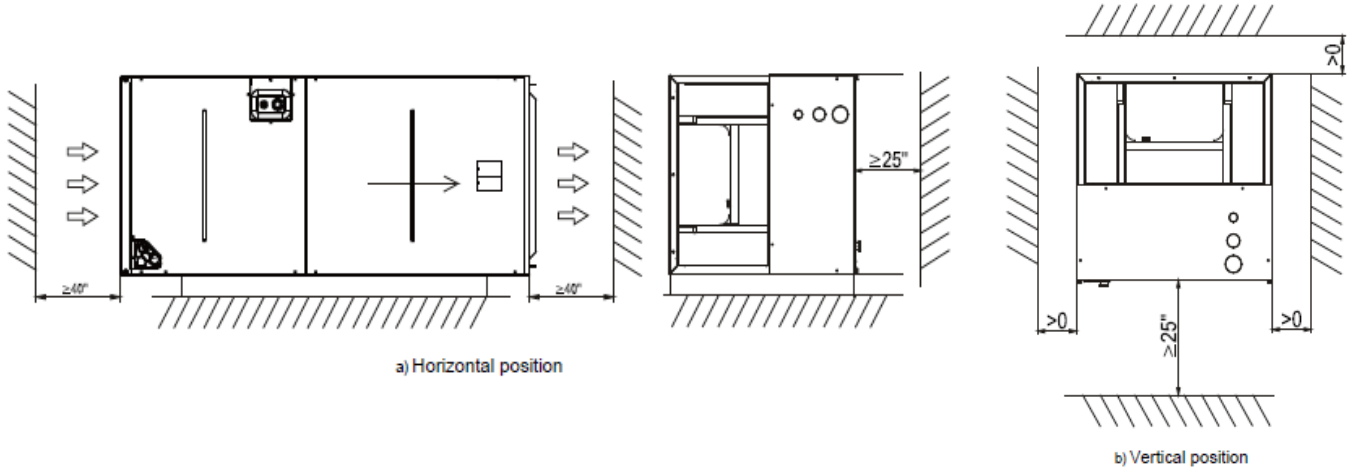
### Indoor Unit Installation Options

The unit may be installed in one of the upflow, downflow, horizontal left or horizontal right orientations.

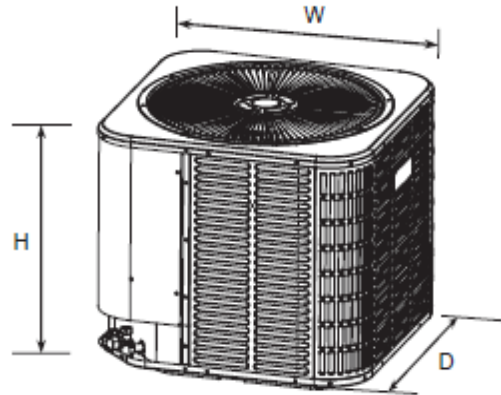


**NOTE:** For a downward air outlet installation, you need to purchase after-sales parts from the dealer and have a professional install them.

Indoor Unit Installation Clearance Requirements



Outdoor Unit Dimension



Model	H×W×D (Inches)
24K	24-15/16×29-1/8×29-1/8
36K	24-15/16×29-1/8×29-1/8
48K	33-3/16×29-1/8×29-1/8
54K	33-3/16×29-1/8×29-1/8

Outdoor Unit Installation Instructions & Clearance Requirements

Avoid to install near bedrooms

Position unit as water, snow, or ice from roof or overhang cannot fall directly on unit.

