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 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 (W×D×H)	**in**	24-1/2" x 56" x 21"
	mm	622 x 1422 x 533
Packing Dimensions (W×D×H)	**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

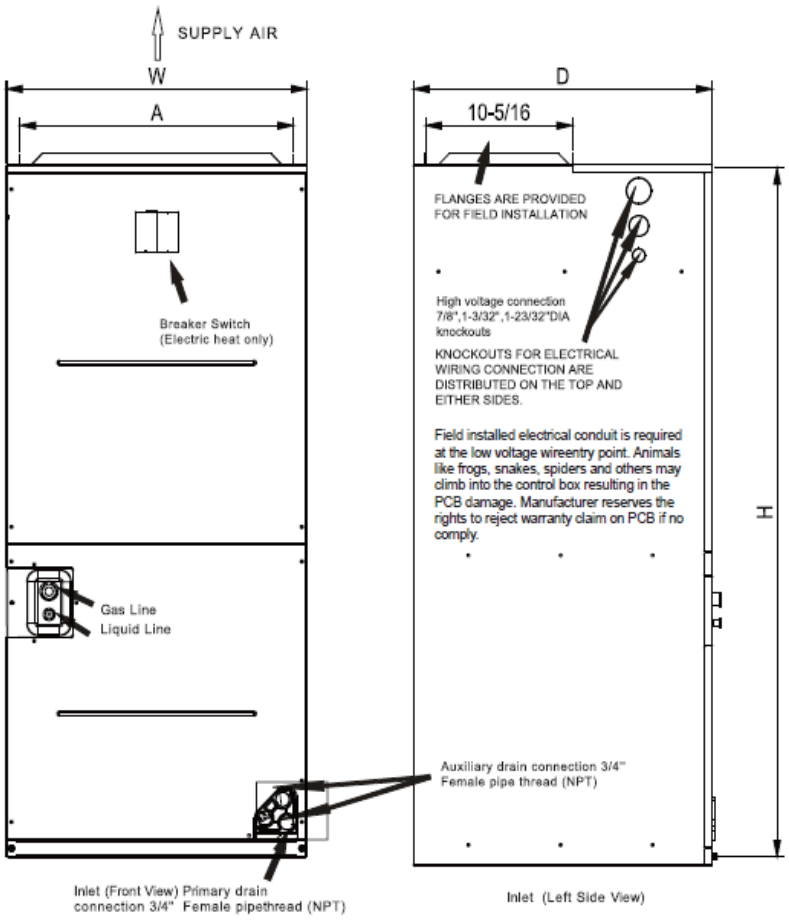
OUTDOOR UNIT SPECIFICATIONS		
Outdoor Sound Pressure Rating	**dB**	69
Throttle Type	**- -**	EEV
Compressor Type	**- -**	Variable Rotary
Compressor Input	**W**	3540
Compressor Rated Current (RLA)	**A**	12.2
Compressor Locked Rotor Amp (LRA)	**A**	26
Compressor Refrigerant Oil Volume	**ml**	1050
Fan Motor 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 (W×D×H)	**in**	29-1/8" x 33-3/16" x 29-1/8"
	mm	740 x 843 x 740
Packing Dimensions (W×D×H)	**in**	30-1/4" x 39-1/2" x 301/4"
	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

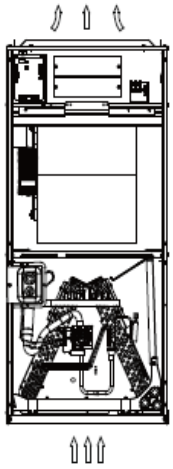
NOTE: 25" CLEARANCE IS REQUIRED IN THE FRONT OF THE UNIT FOR FILTER AND COIL MAINTENANCE



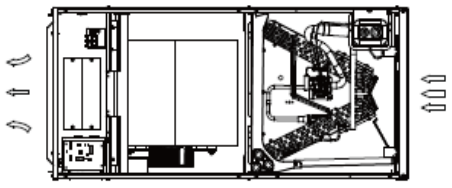
Model	Dimensions (in.)					
	H	W	D	A	Liquid Line Connection	Gas Line Connection
24K 36K	46-1/2	21	21	19-1/4	3/8	3/4
48K 54K	56	24-1/2	21	22-3/4	3/8	7/8

Indoor Unit Installation Opitions

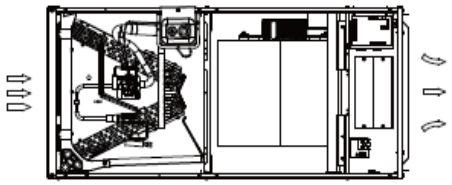
The unit may be installed in one of the upflow, downflow, horizontal left or horizontal right orientations.



Upflow



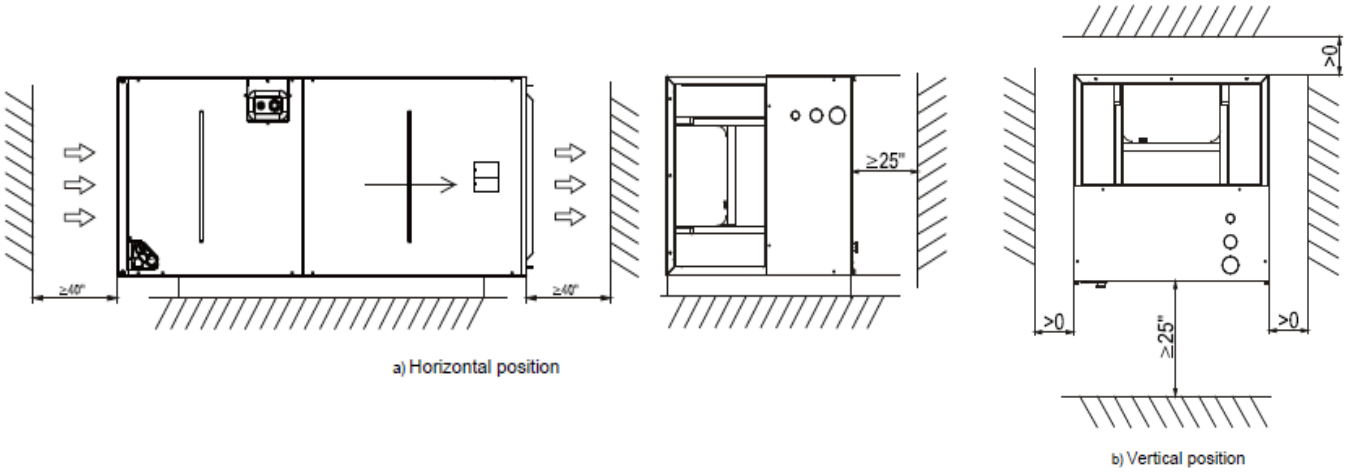
horizontal left flow



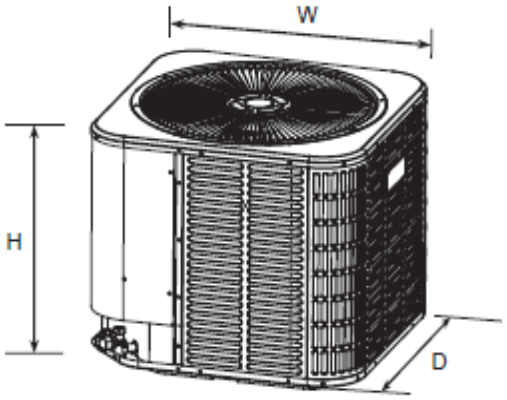
horizontal right flow

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



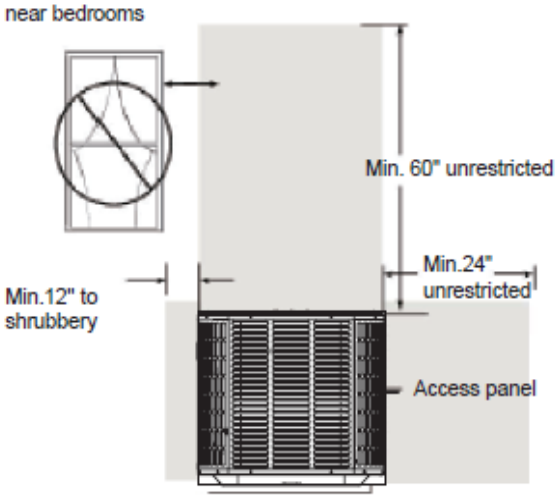
Outdoor Unit Dimension



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.