



Submittal Data Sheet

Indoor Unit Model#: ACiQ-30-AH-E-32
 Outdoor Unit Model#: ACiQ-30-HP-E-32

30K R32 Central Ducted Air Handler & Heat Pump System

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

System Product Code: 810175553436
 Indoor Unit Product Code: 810175553313
 Outdoor Unit Product Code: 810175553375



INDOOR UNIT SPECIFICATIONS

ESP Rated / Range (in. w.g.)	0.5 / 0~1	
Indoor Air Flow (Hi/Mi/Lo) (CFM)	1000 / 820 / 650	
Indoor Noise Level (Hi/Mi/Lo) (dBA)	46 / 44 / 42	
Indoor Fan Motor Speed (Hi/Mi/Lo) (rpm)	940 / 905 / 870	
Indoor Fan Motor Output Power HP(W)	1/2 (370)	
Dimension (WxDxH)	inch	21" x 21" x 49"
	mm	534 x 534 x 1245
Package (WxDxH)	inch	24-5/8" x 27-3/4" x 51-1/2"
	mm	625 x 705 x 1410
Net/Gross Weight	lbs	133.0 / 152.0
	kg	60.3 / 69.0

OUTDOOR UNIT SPECIFICATIONS

Outdoor Fan Speed (rpm)	940	
Outdoor Air Flow (Max) (CFM)	2471.0	
Outdoor Noise Level (dBA)	59	
Dimension (WxDxH)	inch	41-3/16" x 17-15/16" x 31-13/16"
	mm	1046 x 455 x 808
Package (WxDxH)	inch	43-1/2" x 19-1/2" x 31-11/16"
	mm	1105 x 495 x 895
Net/Gross Weight	lbs	147.3 / 156.5
	kg	66.8 / 71.0

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	18.00	HSPF2-4	8.50
EER2	10.00	COP	3.60
Operating Temperature Range °F(°C)		61 ~ 90 (16 ~ 32)	

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	30000
Min/Max Capacity	8000 ~ 30000
Ambient Temperature Range °F(°C)	5 ~ 125 (-15 ~ 52)

HEATING PERFORMANCE

Heating (Btu/hr)	
Rated Capacity @ 47°F	32000
Min/Max Capacity	4500 ~ 33000
Rated Capacity @ 17°F	22000
Rated Capacity @ 5°F	22000
Ambient Temperature Range °F(°C)	5 ~ 75 (-15 ~ 24)

COMPRESSOR SPECIFICATIONS

Compressor Type	Rotary
Capacity (W)	7640
Input (W)	2065
Rated Current (A)	9.3
Rated Input Inverter Current (A)	15
Thermal Protection Temperature (°C)	115
Refrigerant Oil	Ester Oil VG74
Refrigerant Oil Charge (mL)	620

ELECTRICAL SPECIFICATIONS

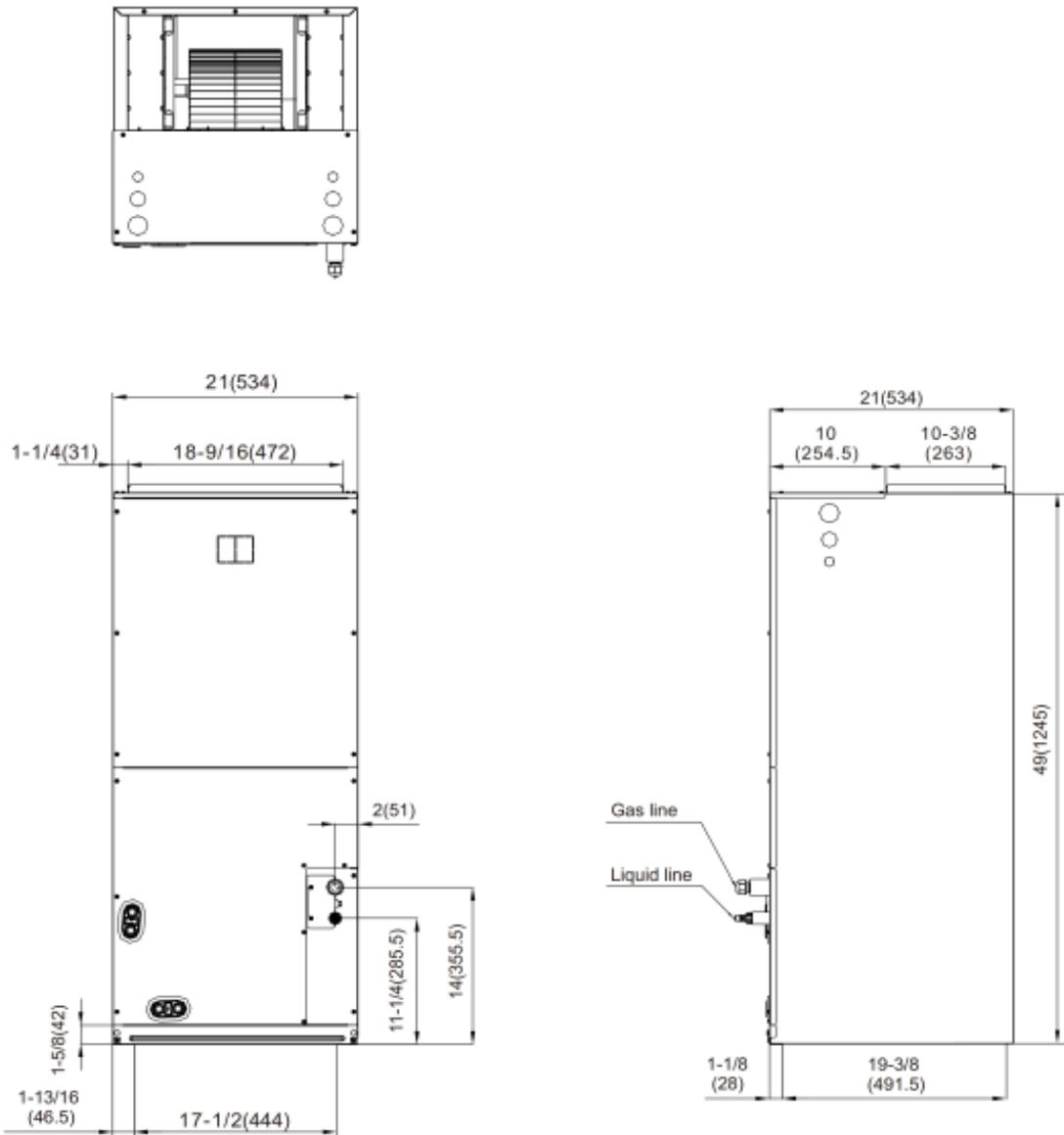
Indoor Power Supply	208/230V, 1 Ph, 60Hz	
Indoor MCA	5.7	
Indoor MOP	10	
Recommended Indoor Power Wiring (AWG)	16	
Recommended Indoor Signal Wiring (AWG)	22	
Outdoor Power Supply	208/230V, 1 Ph, 60Hz	
Outdoor Unit MCA	21	
Outdoor Unit MOP	30	
Recommended Outdoor Power Wiring (AWG)	12	
Recommended Outdoor Signal Wiring (AWG)	22	
Max. Input Consumption (W)	4100	
System Power Input @ Cooling (W)	3000	
System Power Input @ Heating (W)	2605	
Max. Current (A)	18	
Rated Cooling Current (A)	13.31	
Rated Heating Current (A)	11.56	
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)	
AWG: American Wire Gauge (AWG)	W: Watts (W)	

REFRIGERANT PIPING SPECIFICATIONS

Refrigerant Type	R32
Refrigerant Charge Amount oz(g)	81.13 (2300)
Liquid Size O.D. in(mm)	3/8" (9.52)
Gas Size O.D. in(mm)	5/8" (15.88)
Max. Piping Length ft(m)	98' (30)
Max. Height Difference ft(m)	49' (15)
Connection Method	Flare

Indoor Unit Dimensions

(unit:in.[mm])

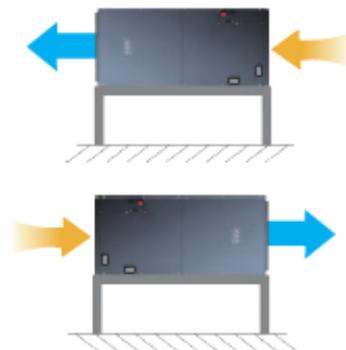


Indoor Unit Installation Options

Vertical, horizontal or inverted installation to meet most installation requirements



Vertical



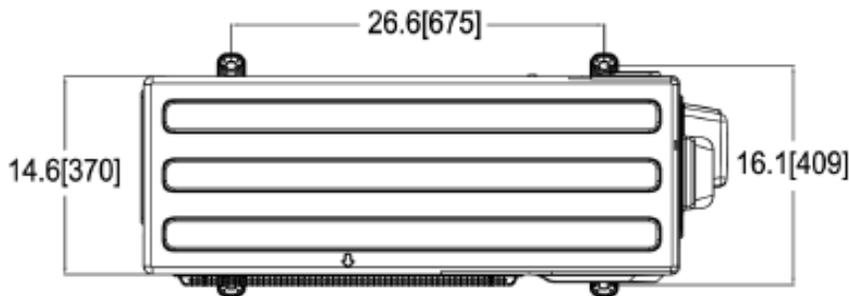
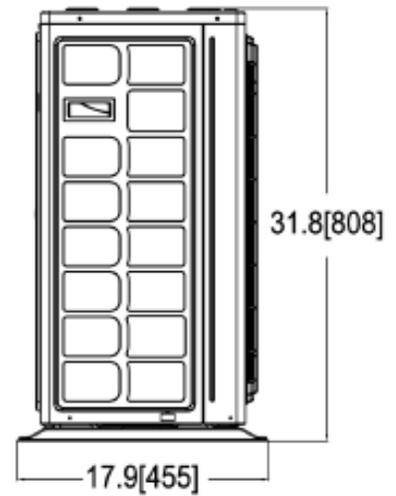
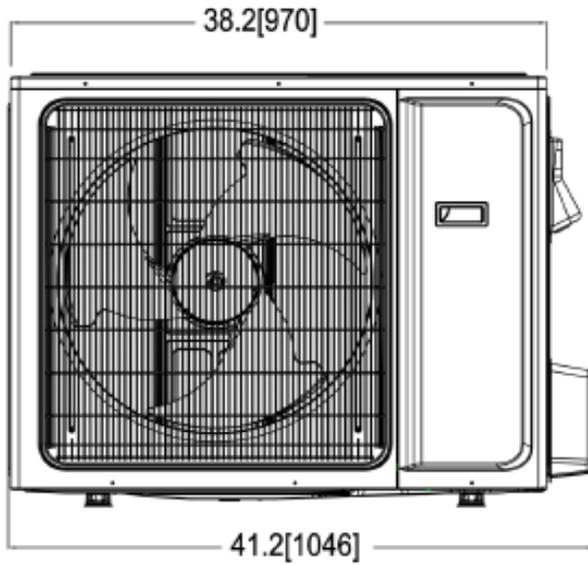
Horizontal



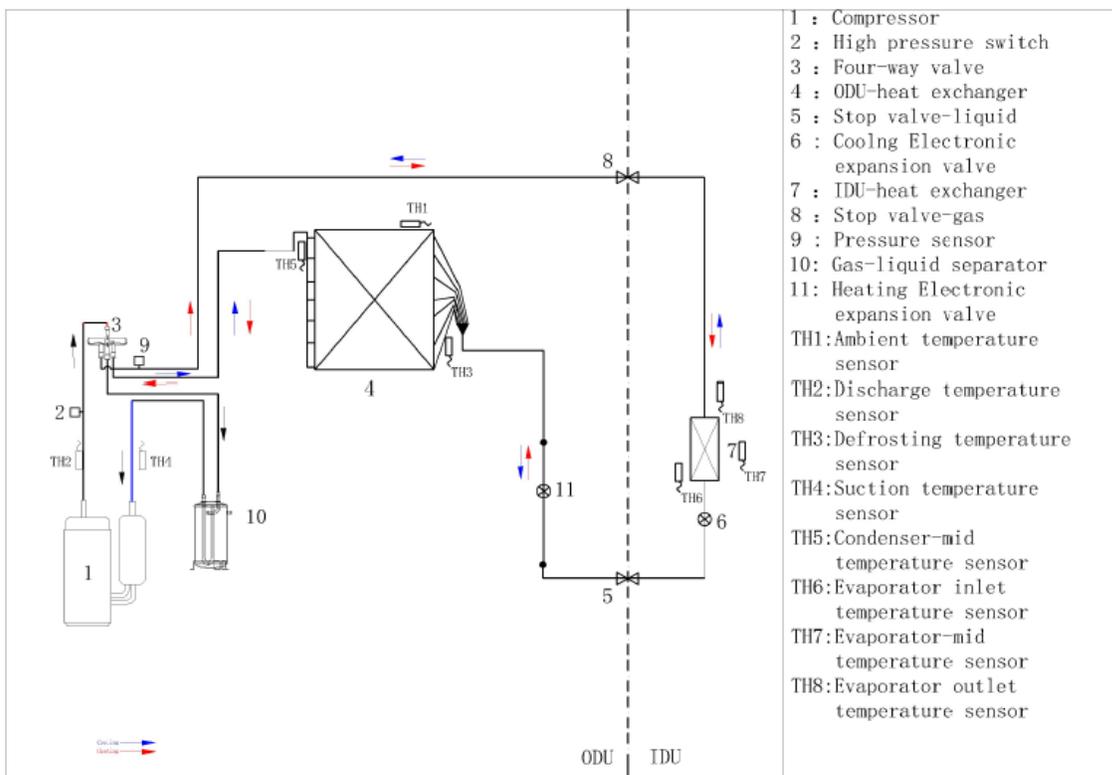
Inverted

Outdoor Unit Dimension

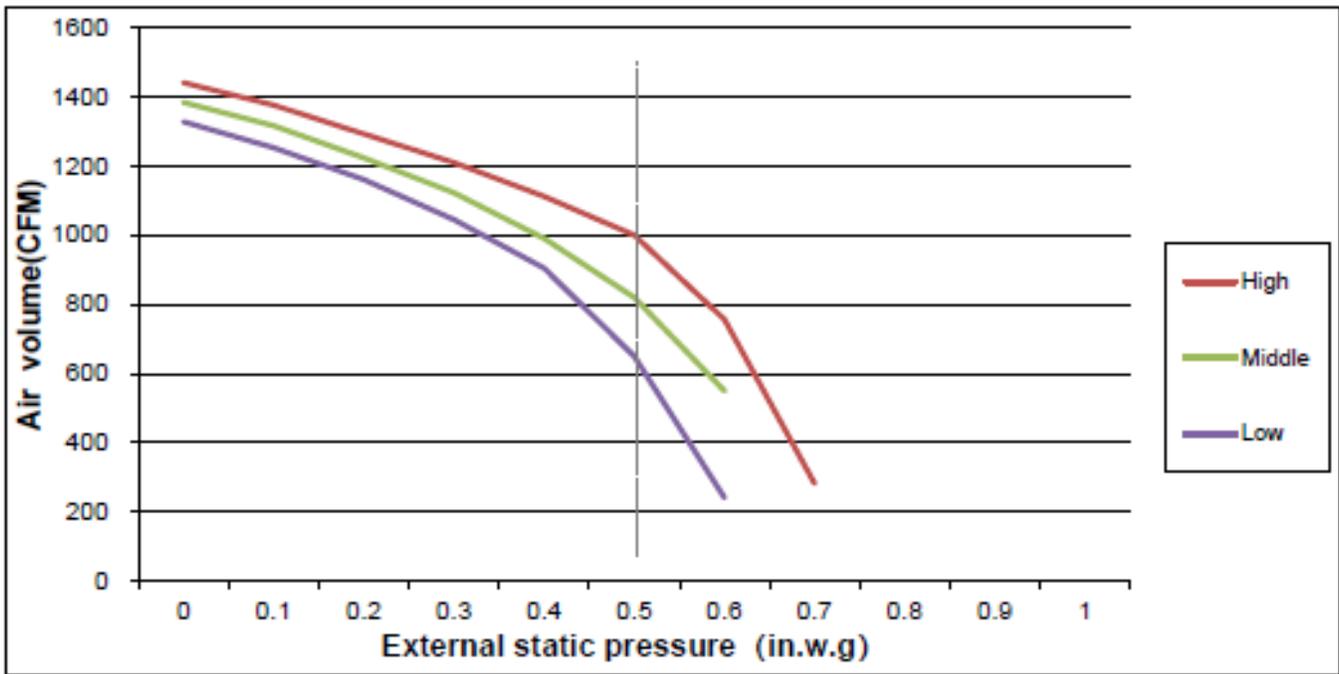
(unit.in.[mm])



Refrigerant System Diagram



Fan Performance For Indoor Unit



Features

- Multi-position installation options to suit application/installation requirements: vertical, horizontal, and inverted
- R32 environmentally friendly refrigerant
- Wide ambient temperature range: 5°F~125°F (-15°C~52°C)
- Wide voltage range: 170~253V power supply to adapt to any unstable voltage, protecting the PCB against a power surge
- High Efficiency: 16~18 SEER2 Rating
- Auto-Restart Function
- High ESP: Max. ESP up to 1 in. w.g.
- Fan & evaporator slide out design
- Multiple protection functions
- System allows for extended refrigerant piping length (up to 164 ft., depending on system/unit capacity) making it perfect for small or large homes