



Submittal Data Sheet

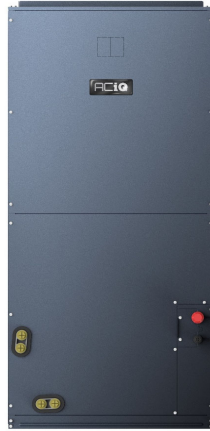
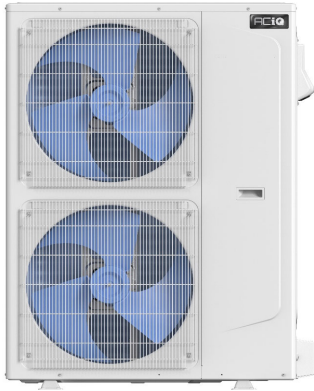
Indoor Unit Model#: ACiQ-48-AH-E-32

Outdoor Unit Model#: ACiQ-48-HP-E-32

48K R32 Central Ducted Air Handler & Heat Pump System

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

System Product Code: 81017553450
Indoor Unit Product Code: 81017553337
Outdoor Unit Product Code: 81017553399



INDOOR UNIT SPECIFICATIONS

ESP Rated / Range (in. w.g.)		0.5 / 0~1
Indoor Air Flow (Hi/Mi/Lo) (CFM)		1550 / 1300 / 1050
Indoor Noise Level (Hi/Mi/Lo) (dBA)		52 / 50 / 48
Indoor Fan Motor Speed (Hi/Mi/Lo) (rpm)		1030 / 940 / 850
Indoor Fan Motor Output Power HP(W)		1 (750)
Dimension (W×D×H)	inch	24-1/2" x 21" x 53"
	mm	622 x 534 x 1346
Package (W×D×H)	inch	27-5/16" x 27-5/16" x 59-7/16"
	mm	710 x 710 x 1510
Net/Gross Weight	lbs	154.3 / 177.5
	kg	70.0 / 80.5

OUTDOOR UNIT SPECIFICATIONS

Outdoor Fan Speed (rpm)		800
Outdoor Air Flow (Max) (CFM)		4000.0
Outdoor Noise Level (dBA)		60
Dimension (W×D×H)	inch	39-13/16" x 15-3/4" x 51-15/16"
	mm	1011 x 400 x 1320
Package (W×D×H)	inch	42-1/2" x 16-15/16" x 56-11/16"
	mm	1080 x 430 x 1440
Net/Gross Weight	lbs	196.9 / 216.7
	kg	89.3 / 98.3

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	16.00	HSPF2-4	9.00
EER2	9.50	COP	3.40
Operating Temperature Range °F(°C)		61 ~ 90 (16 ~ 32)	

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	48000
Min/Max Capacity	10000 ~ 50000
Ambient Temperature Range °F(°C)	5 ~ 125 (-15 ~ 52)

HEATING PERFORMANCE

Heating (Btu/hr)	
Rated Capacity @ 47°F	48000
Min/Max Capacity	10000 ~ 53000
Rated Capacity @ 17°F	45000
Rated Capacity @ 5°F	40500
Ambient Temperature Range °F(°C)	5 ~ 75 (-15 ~ 24)

COMPRESSOR SPECIFICATIONS

Compressor Type	Rotary
Capacity (W)	13350
Input (W)	3645
Rated Current (A)	6.8
Rated Input Inverter Current (A)	23
Thermal Protection Temperature (°C)	115
Refrigerant Oil	Ester Oil VG74
Refrigerant Oil Charge (mL)	1000

ELECTRICAL SPECIFICATIONS

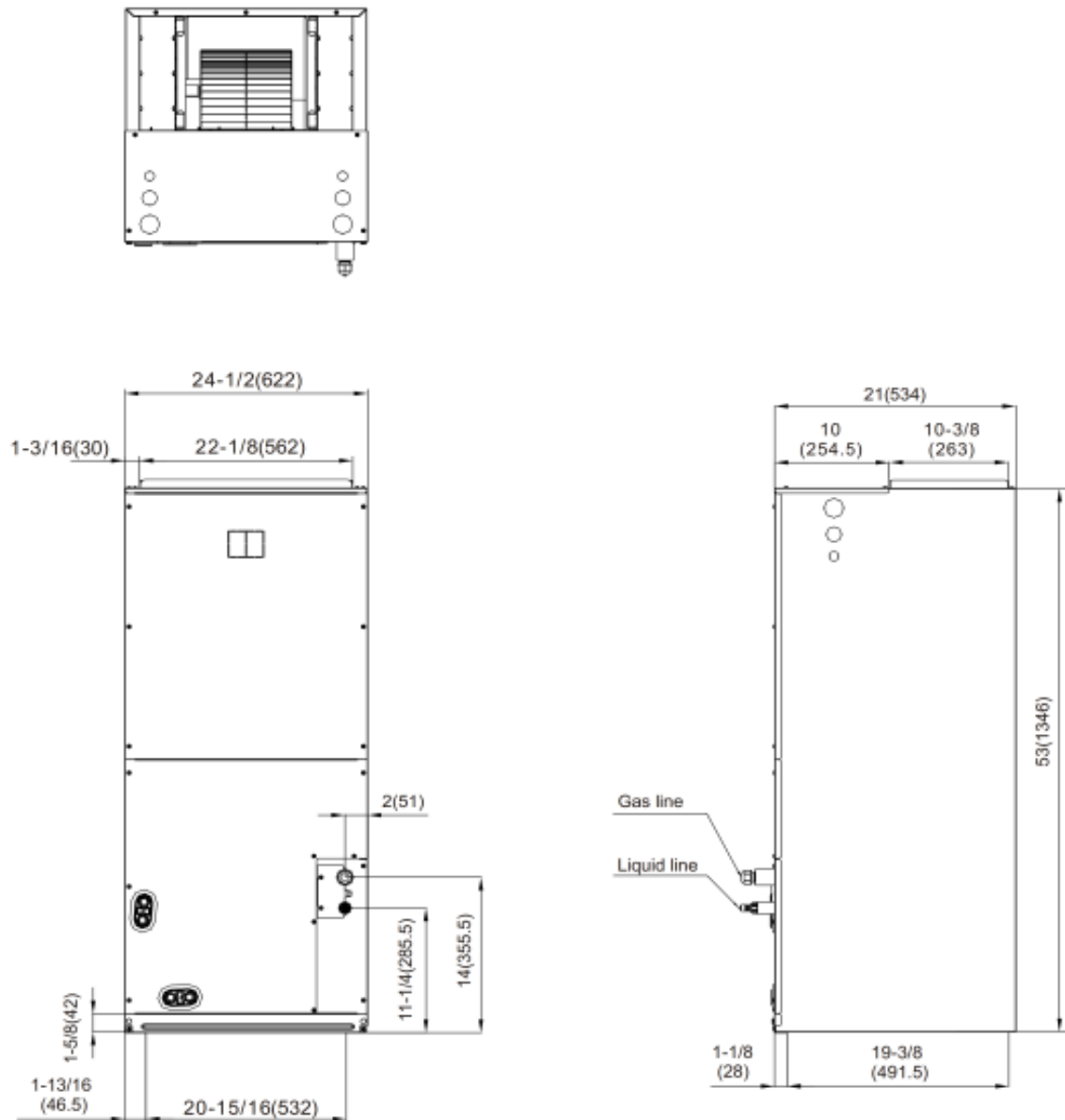
Indoor Power Supply	208/230V, 1 Ph, 60Hz
Indoor MCA	8.5
Indoor MOP	15
Recommended Indoor Power Wiring (AWG)	16
Recommended Indoor Signal Wiring (AWG)	22
Outdoor Power Supply	208/230V, 1 Ph, 60Hz
Outdoor Unit MCA	31
Outdoor Unit MOP	45
Recommended Outdoor Power Wiring (AWG)	8
Recommended Outdoor Signal Wiring (AWG)	22
Max. Input Consumption (W)	6500
System Power Input @ Cooling (W)	5053
System Power Input @ Heating (W)	4138
Max. Current (A)	30
Rated Cooling Current (A)	22.42
Rated Heating Current (A)	18.36
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)	123.46 (3500)
Liquid Size O.D. in(mm)	3/8" (9.52)
Gas Size O.D. in(mm)	3/4" (19.05)
Max. Piping Length ft(m)	164' (50)
Max. Height Difference ft(m)	98' (30)
Connection Method	Flare

Indoor Unit Dimensions

(unit:in.[mm])

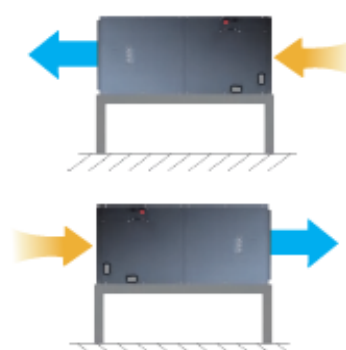


Indoor Unit Installation Options

Vertical, horizontal or inverted installation to meet most installation requirements



Vertical



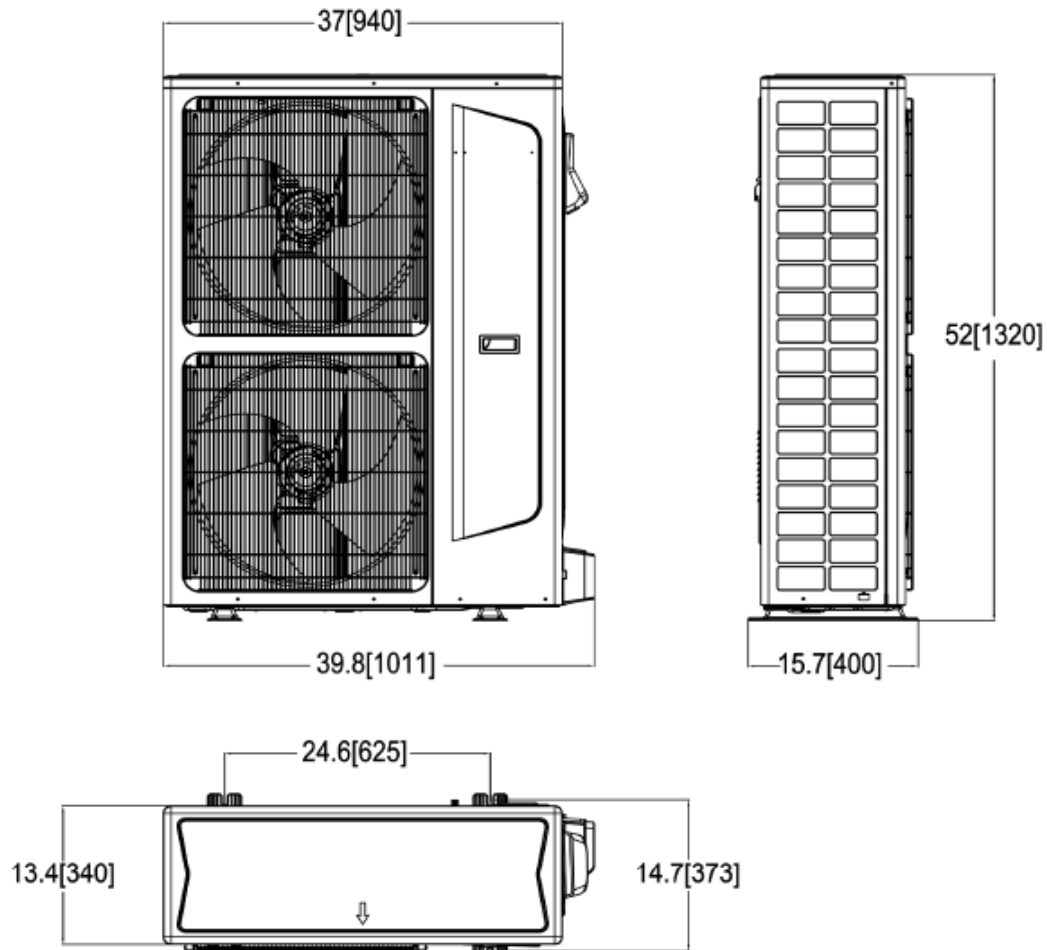
Horizontal



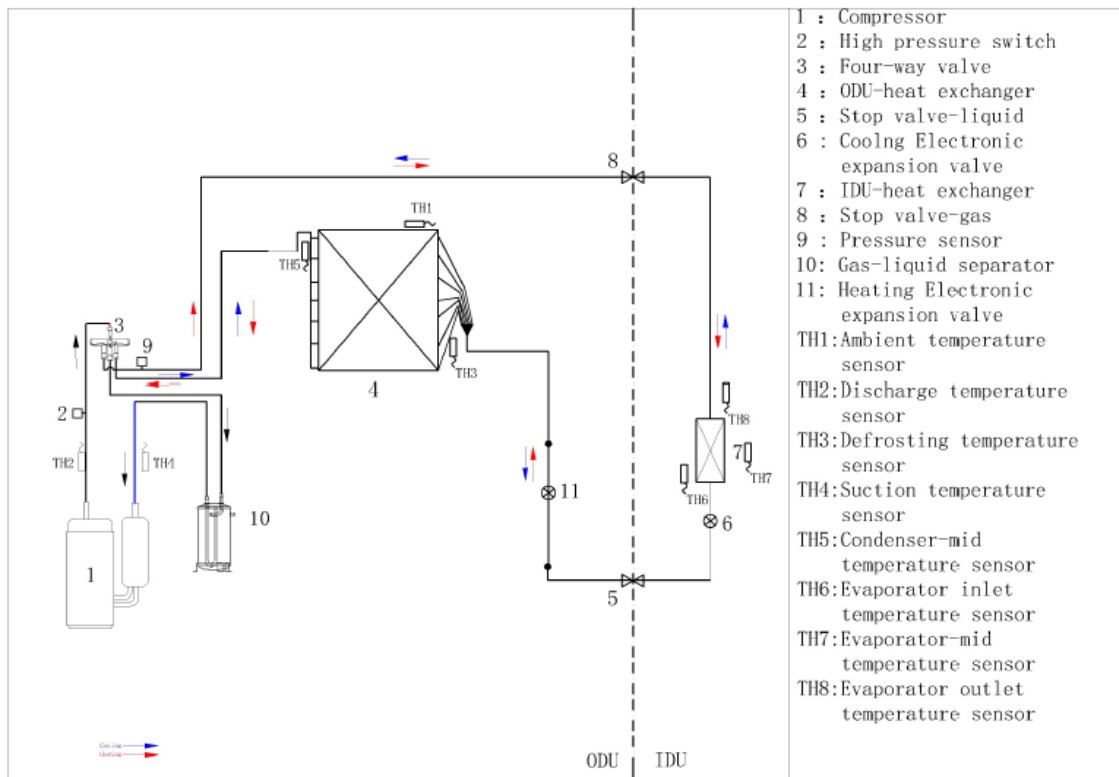
Inverted

Outdoor Unit Dimension

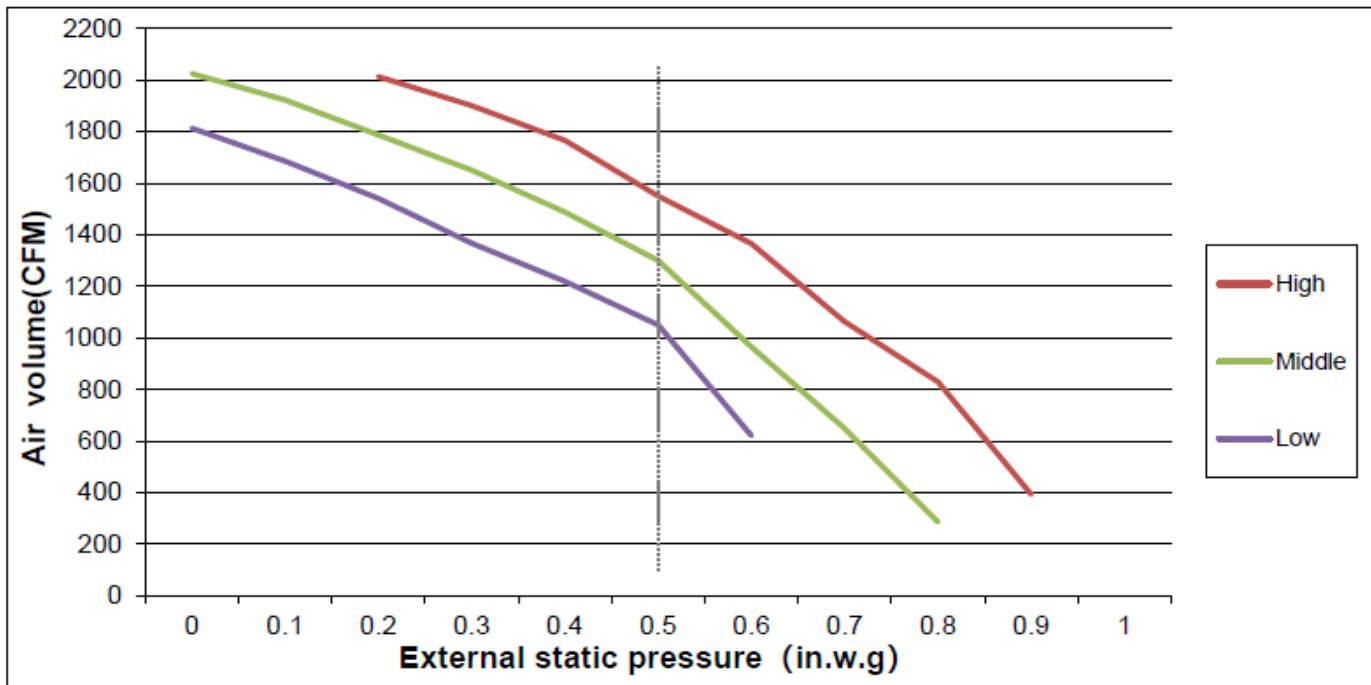
(unit:in.[mm])



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