



Submittal Data Sheet

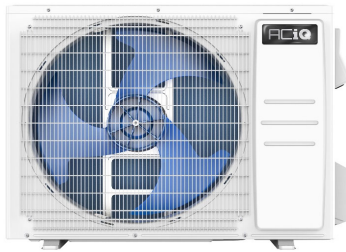
Indoor Unit Model#: ACiQ-18-AH-E-32

Outdoor Unit Model#: ACiQ-18-HP-E-32

18K R32 Central Ducted Air Handler & Heat Pump System

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

System Product Code: 81017553412
Indoor Unit Product Code: 81017553290
Outdoor Unit Product Code: 81017553351



INDOOR UNIT SPECIFICATIONS

ESP Rated / Range (in. w.g.)		0.5 / 0~1
Indoor Air Flow (Hi/Mi/Lo) (CFM)		600 / 530 / 440
Indoor Noise Level (Hi/Mi/Lo) (dBA)		42 / 40 / 38
Indoor Fan Motor Speed (Hi/Mi/Lo) (rpm)		870 / 840 / 810
Indoor Fan Motor Output Power HP(W)		1/3 (250)
Dimension (W×D×H)	inch	17-1/2" x 21" x 45"
	mm	445 x 534 x 1143
Package (W×D×H)	inch	21-1/16" x 27-3/4" x 51-9/16"
	mm	535 x 705 x 1310
Net/Gross Weight	lbs	112.4 / 129.0
	kg	51.0 / 58.5

OUTDOOR UNIT SPECIFICATIONS

Outdoor Fan Speed (rpm)		870
Outdoor Air Flow (Max) (CFM)		2059.0
Outdoor Noise Level (dBA)		56
Dimension (W×D×H)	inch	38-9/16" x 15-1/4" x 27-9/16"
	mm	980 x 388 x 700
Package (W×D×H)	inch	40-3/16" x 16-15/16" x 30-5/16"
	mm	1020 x 430 x 770
Net/Gross Weight	lbs	95.9 / 102.5
	kg	43.5 / 46.5

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	17.00	HSPF2-4	8.60
EER2	11.25	COP	3.50
Operating Temperature Range °F(°C)		61 ~ 90 (16 ~ 32)	

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	4000 ~ 20000
Ambient Temperature Range °F(°C)	5 ~ 125 (-15 ~ 52)

HEATING PERFORMANCE

Heating (Btu/hr)	
Rated Capacity @ 47°F	18000
Min/Max Capacity	3500 ~ 21000
Rated Capacity @ 17°F	14000
Rated Capacity @ 5°F	14000
Ambient Temperature Range °F(°C)	5 ~ 75 (-15 ~ 24)

COMPRESSOR SPECIFICATIONS

Compressor Type	Rotary
Capacity (W)	4345
Input (W)	1125
Rated Current (A)	6.85
Rated Input Inverter Current (A)	12
Thermal Protection Temperature (°C)	115
Refrigerant Oil	Ester Oil VG74
Refrigerant Oil Charge (mL)	435

ELECTRICAL SPECIFICATIONS

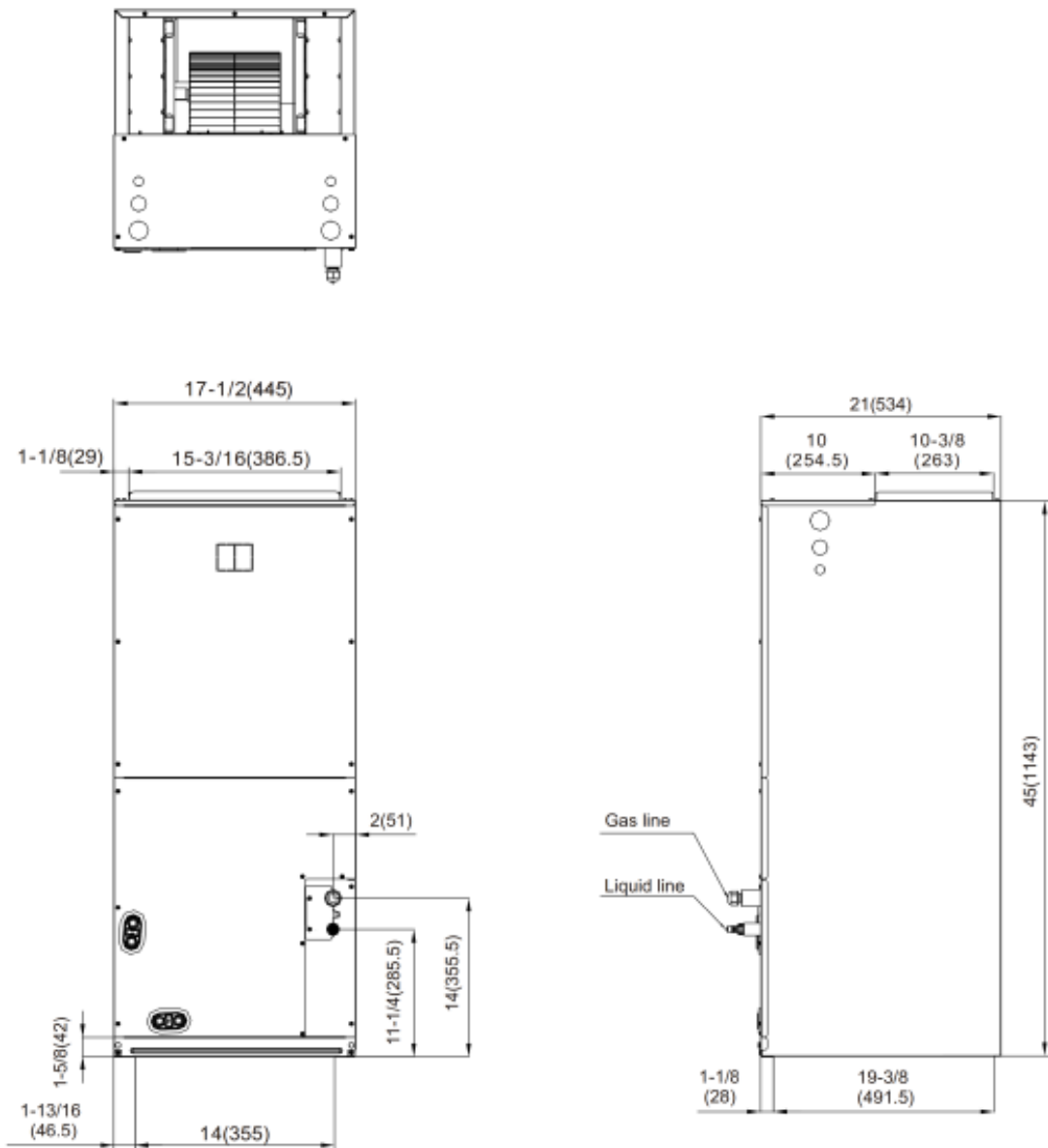
Indoor Power Supply	208/230V, 1 Ph, 60Hz
Indoor MCA	3.7
Indoor MOP	6
Recommended Indoor Power Wiring (AWG)	16
Recommended Indoor Signal Wiring (AWG)	22
Outdoor Power Supply	208/230V, 1 Ph, 60Hz
Outdoor Unit MCA	17
Outdoor Unit MOP	25
Recommended Outdoor Power Wiring (AWG)	14
Recommended Outdoor Signal Wiring (AWG)	22
Max. Input Consumption (W)	2800
System Power Input @ Cooling (W)	1600
System Power Input @ Heating (W)	1507
Max. Current (A)	13
Rated Cooling Current (A)	7.1
Rated Heating Current (A)	6.69
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)	42.33 (1200)
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])

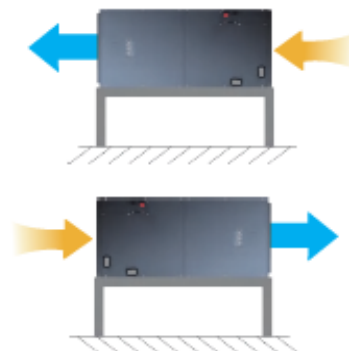


Indoor Unit Installation Options

Vertical, horizontal or inverted installation to meet most installation requirements



Vertical



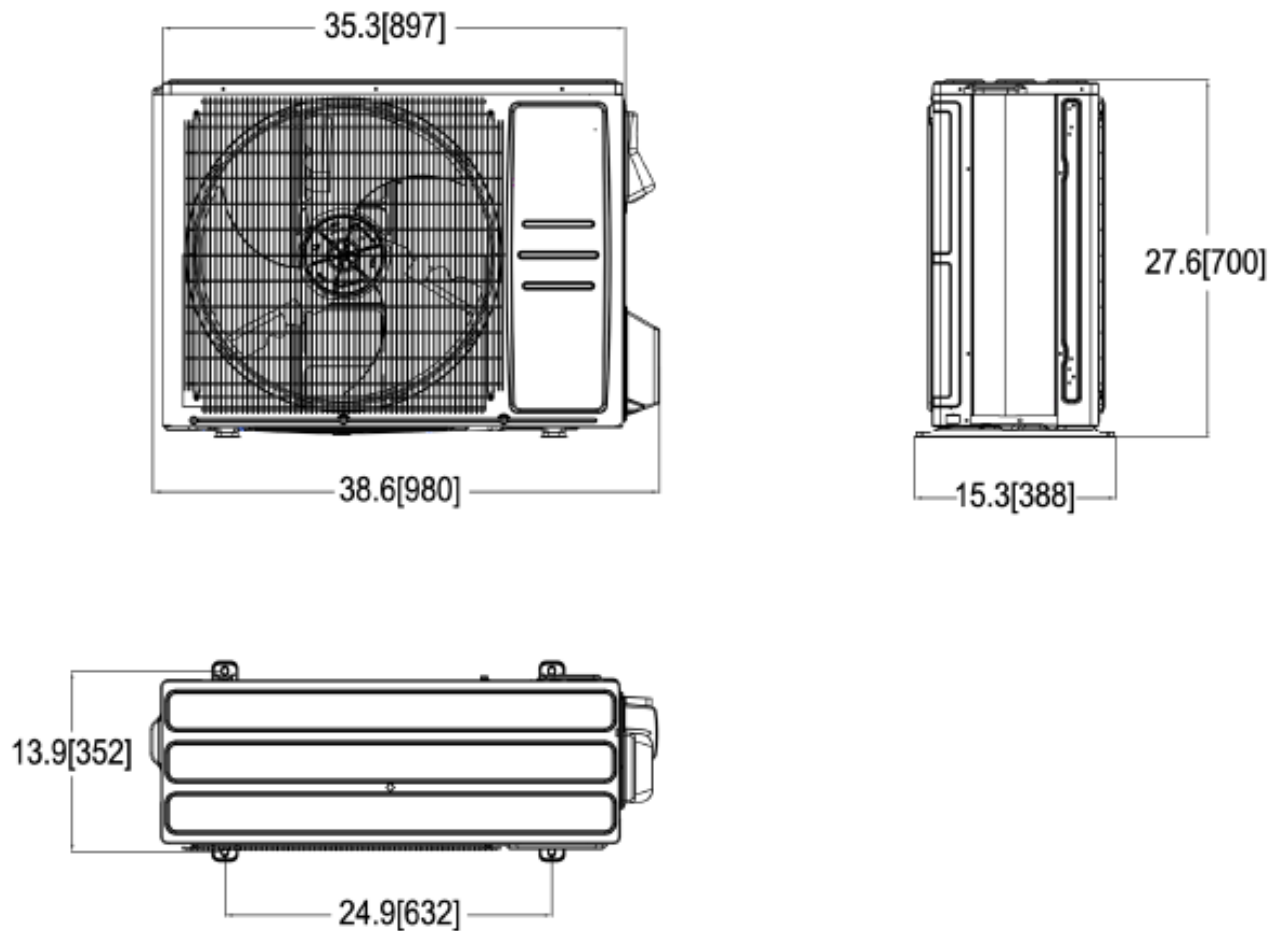
Horizontal



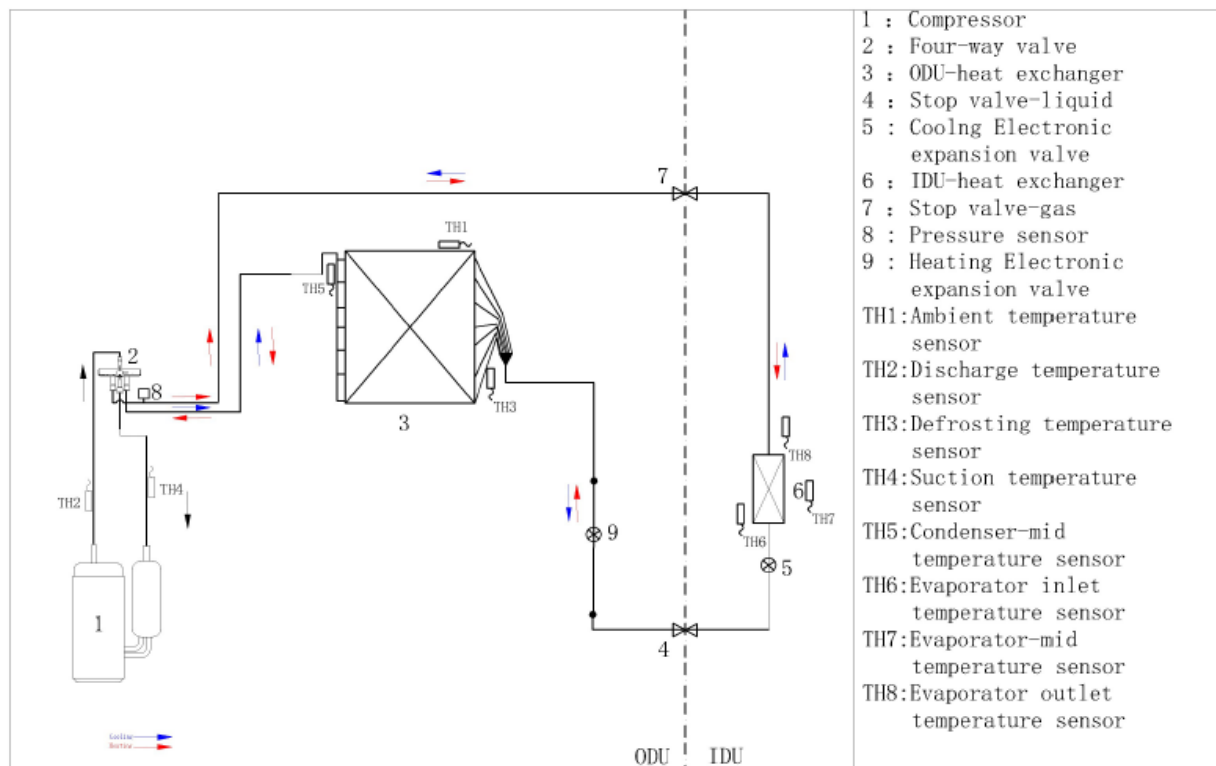
Inverted

Outdoor Unit Dimension

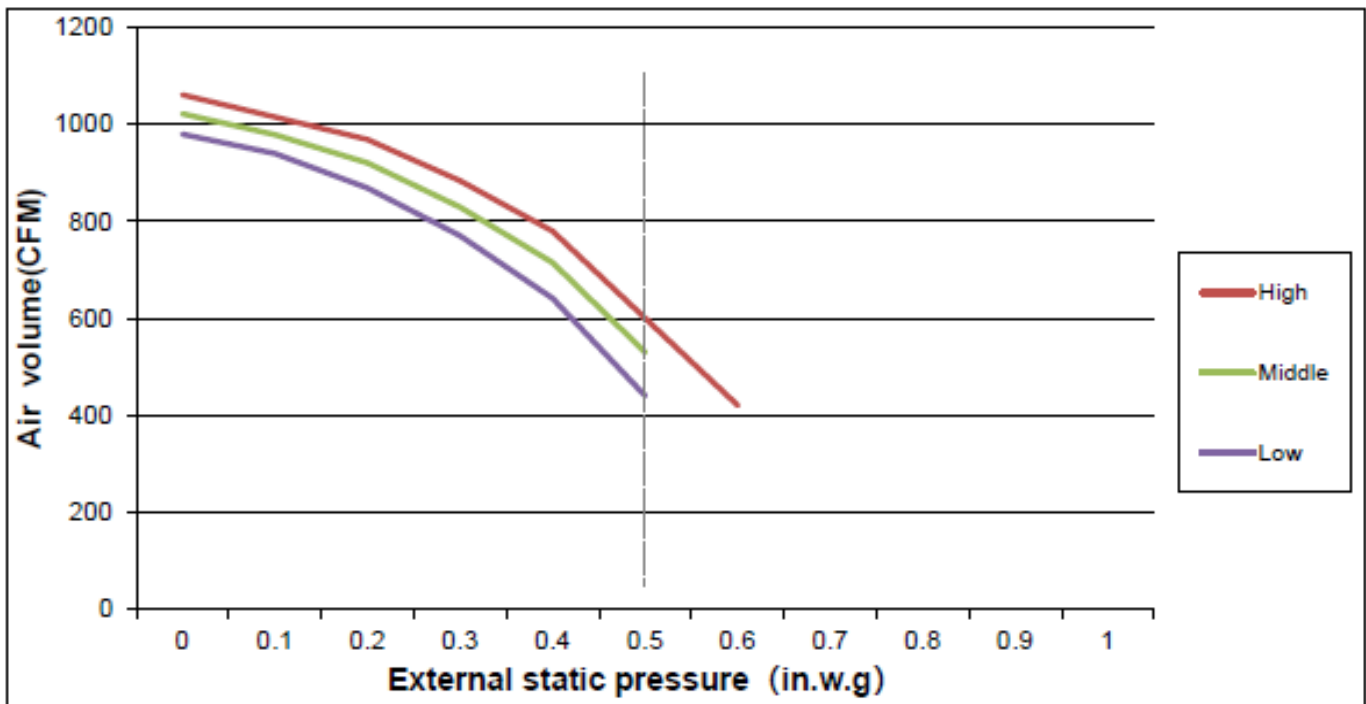
(unit:in.[mm])



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