



Submittal Data Sheet

Indoor Unit Model#: ACiQ-60-AH-E-32
 Outdoor Unit Model#: ACiQ-60-HP-E-32

60K R32 Central Ducted Air Handler & Heat Pump System

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



INDOOR UNIT SPECIFICATIONS		
ESP Rated / Range (in. w.g.)		0.5 / 0-1
Indoor Air Flow (Hi/Mi/Lo) (CFM)		1800 / 1490 / 1180
Indoor Noise Level (Hi/Mi/Lo) (dBA)		52 / 50 / 48
Indoor Fan Motor Speed (Hi/Mi/Lo) (rpm)		1100 / 1005 / 910
Indoor Fan Motor Output Power HP(W)		1 (750)
Dimension (WxDxH)	inch	24-1/2" x 21" x 53"
	mm	622 x 534 x 1346
Package (WxDxH)	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 (WxDxH)	inch	39-13/16" x 15-3/4" x 51-15/16"
	mm	1011 x 400 x 1320
Package (WxDxH)	inch	42-1/2" x 16-15/16" x 56-11/16"
	mm	1080 x 430 x 1440
Net/Gross Weight	lbs	205.0 / 224.9
	kg	93.0 / 102

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	55000
Min/Max Capacity	11000 ~ 57000
Ambient Temperature Range °F(°C)	5 ~ 125 (-15 ~ 52)

HEATING PERFORMANCE	
Heating (Btu/hr)	
Rated Capacity @ 47°F	55000
Min/Max Capacity	11000 ~ 57000
Rated Capacity @ 17°F	48000
Rated Capacity @ 5°F	41500
Ambient Temperature Range °F(°C)	5 ~ 75 (-15 ~ 24)

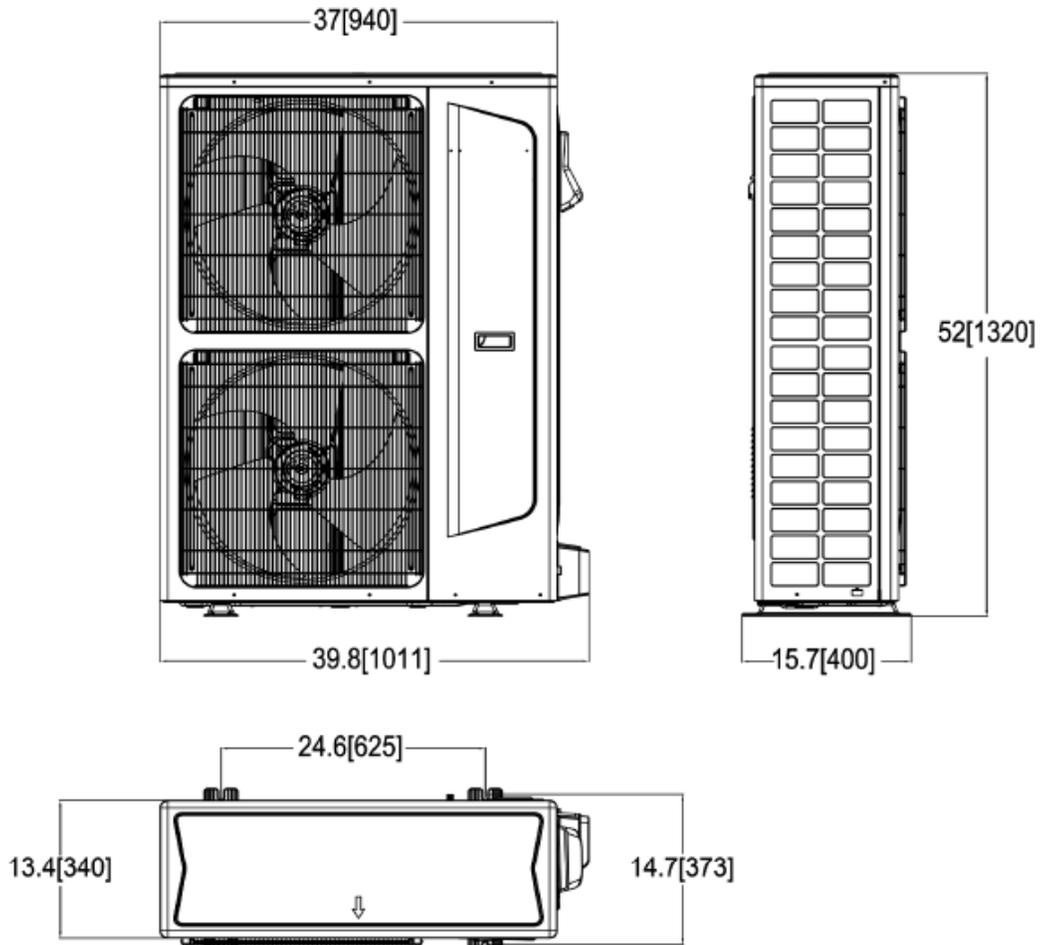
COMPRESSOR SPECIFICATIONS	
Compressor Type	Rotary
Capacity (W)	13350
Input (W)	3645
Rated Current (A)	6.8
Rated Input Inverter Current (A)	25
Thermal Protection Temperature (°C)	115
Refrigerant Oil	Ester Oil VG74
Refrigerant Oil Charge (mL)	1000

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	34
Outdoor Unit MOP	50
Recommended Outdoor Power Wiring (AWG)	8
Recommended Outdoor Signal Wiring (AWG)	22
Max. Input Consumption (W)	7000
System Power Input @ Cooling (W)	5789
System Power Input @ Heating (W)	4741
Max. Current (A)	32
Rated Cooling Current (A)	25.69
Rated Heating Current (A)	21.03
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
AWG: American Wire Gauge (AWG)	W: Watts (W)

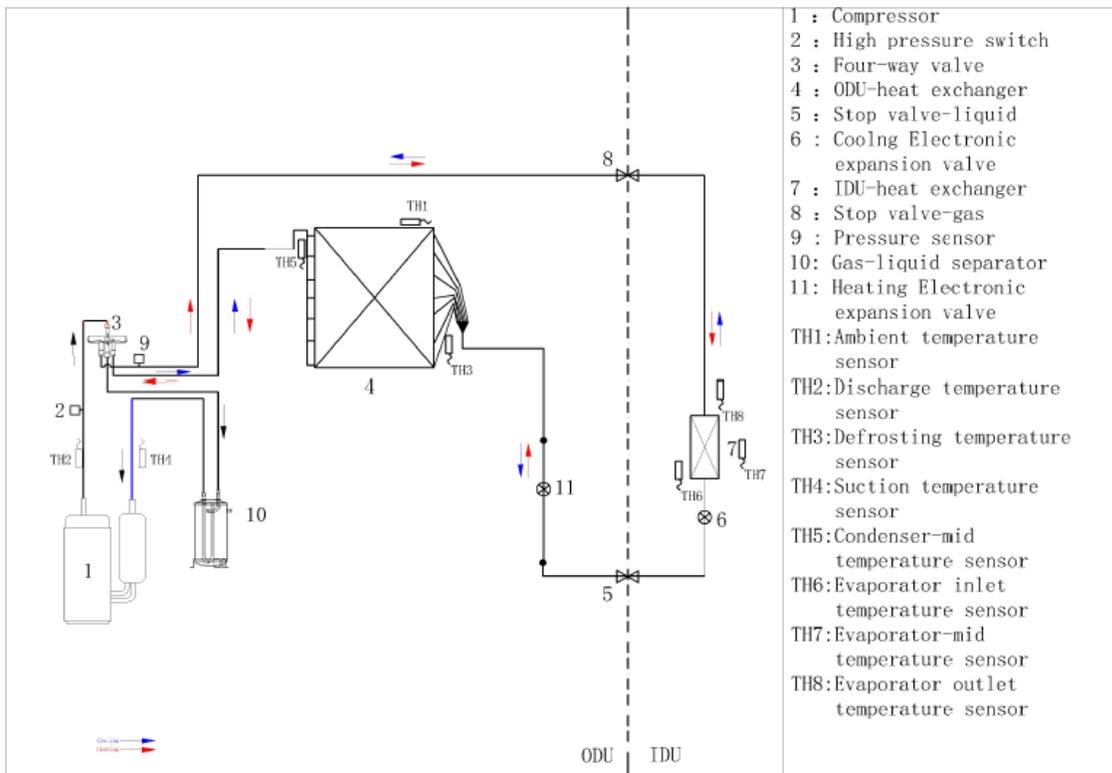
REFRIGERANT PIPING SPECIFICATIONS	
Refrigerant Type	R32
Refrigerant Charge Amount oz(g)	130.51 (3700)
Liquid Size O.D. in(mm)	3/8" (9.52)
Gas Size O.D. in(mm)	3/4" (19.05)
Max. Piping Length ft(m)	164' (50)
Max. Height Difference ft(m)	98' (30)
Connection Method	Flare

Outdoor Unit Dimension

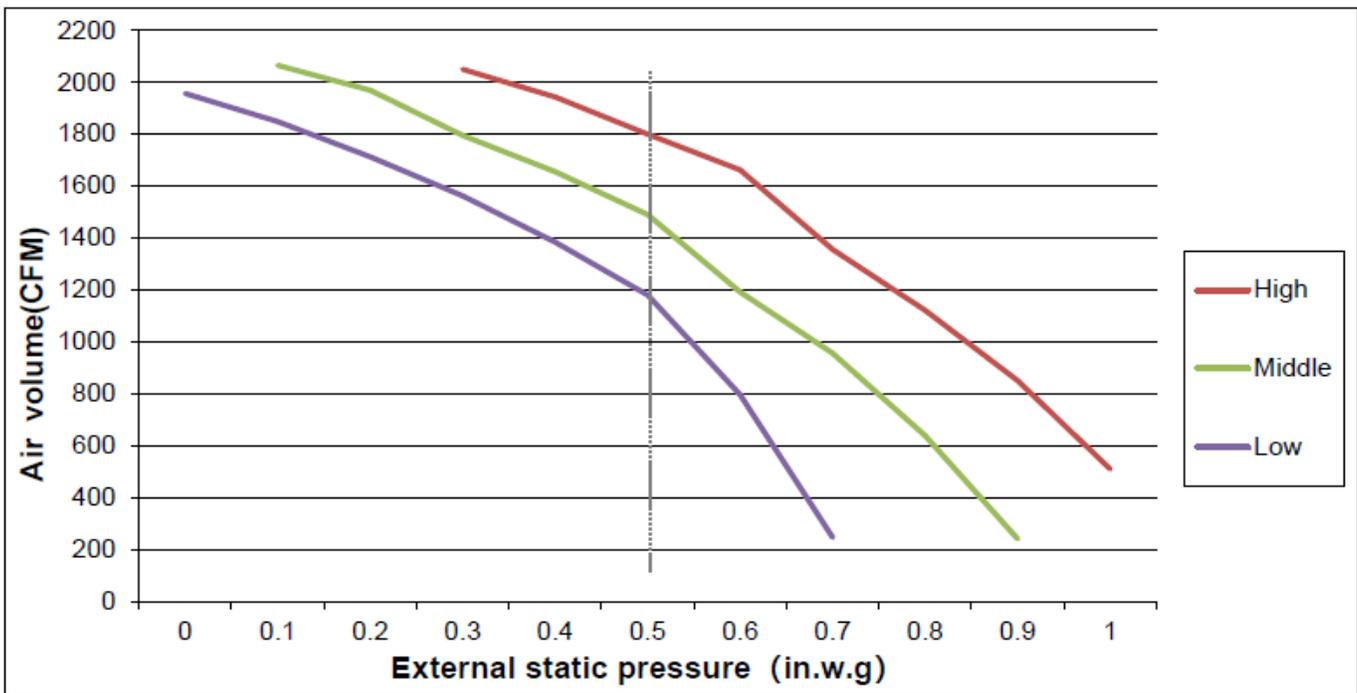
(unit:in.[mm])



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