

4-Ton Rooftop Packaged Air Conditioner

Model #: ACiQ-PHH1748000K000V

Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Approval: _____
 Date: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

Rooftop AC Unit Product Code: 810175552422
 ACiQ Model Number: ACiQ-PHH1748000K000V

Certified

AHRI



UL



System Performance

Cooling Capacity	(Btu/hr)	47000
Cooling Capacity Range	(Btu/hr)	11800~49400
Heating Capacity	(Btu/hr)	47000
Heating Capacity Range	(Btu/hr)	11750~51700
SEER	(Btu/hr/W)	17.8
EER	(Btu/hr/W)	11
COP	(Btu/hr/W)	11.05
HSPF	(Btu/hr/W)	8.5
Ambient Temperature Range (Cooling Operation)	°F	23~125
	°C	-5~52
Ambient Temperature Range (Heating Operation)	°F	-22~75.2
	°C	-30~24
Defrosting Method	--	Automatic Defrosting

Electrical Specifications

Power Supply	(V, Ph, Hz)	208/230V, 1Ph, 60Hz
Recommended Power Cable (Core)	(N)	3
Fuse Current	(A)	45
Circuit Breaker	(A)	45
Max. Over Current Protection	(A)	45
Min. Current (MCA)	(A)	39.1
Cooling Power Input	(kW)	4.27
Heating Power Input	(W)	4.25
System Operation Control	--	Wired Controller

Compressor Specifications

Model	--	QXAT-F400zN450
Compressor Quantity	--	1
Type	--	Inverter Rotary
Brand	--	LANDA
Power Input of Compressor Crankcase	(W)	40
Rated Load Amps (RLA)	(A)	23.00
Compressor Refrigerant Oil Type	--	FW68L
Compressor Refrigerant Oil Volume	(L)	1.50

Refrigerant Specifications

Refrigerant type	--	R410A
Refrigerant Charge Amount	oz	236.4
	kg	6.7
Throttling Method (Cooling/Heating)	--	EEV
Cooling Throttling Model	--	DPF(B)3.2C-015/DPF(TS1)3.2C-19
Heating Throttling Model	--	DPF(TS2)3.0C-01
Maximum Allowable Pressure	MPa	4.5

Dimensions & Weight

Unit Dimensions (WxDxH)	In.	44.09x44.09x49.21
	mm	1120x1120x1250
Packaging Dimensions (WxDxH)	In.	44.60x44.60x50.79
	mm	1133x1133x1290
Net/Gross Weight	lbs	628/650
	kg	285/295
Container Loading Quantity (20'/40'/40' High Cube)	unit	10/20/40

Air Filter Specifications

Air Filter Material	--	Aluminum
Air Filter Size (LxW/No. of Filters)	inch	29.33x13.23/1
	mm	745x336/1
Air Filter Thickness	inch	5/8 (0.625)
	mm	15

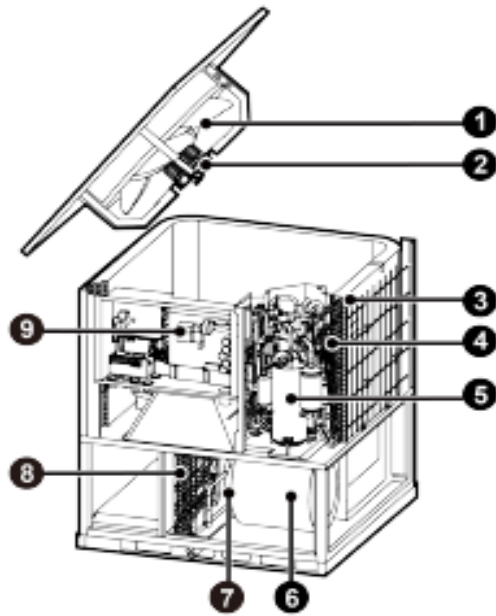
Evaporator & Fan Specifications

Evaporator Material	--	Copper Tube-Aluminum Fin
Evaporator Fin Type	--	Hydrophilic-window
Evaporator Fin Color	--	Golden
Number of Evaporator Rows	No.	4
Number of Evaporator Circuits	No.	16
Evaporator Length (LxDxW)	in	36.06x3.79x28.23
	mm	916x96.2x717
Evaporator Pipe Diameter	inch	5/16 (0.3125)
	mm	7.94
Evaporator Face Area	sq. ft.	6.29
	m²	0.58
Evaporator Tube Pitch (a)	inch	7/8 (0.87) x 3/4 (0.75)
x Row Pitch (b)	mm	22.00x19.05
Evaporator Fin Pitch	inch	0.06
	mm	1.40
Evaporator Fins per inch (FPI)	--	18
Drainage Connection Size (O.D. x Wall Thickness)	in	3/4 (NPT)
	mm	19.05 (NPT)
Fan Type	--	Centrifugal
Fan Quantity	No.	1
Fan Motor Model	--	B-FGZ750C
Fan Motor Drive Type	--	Direct Drive
Fan Motor Insulation Class	--	B
Fan Motor Safe Class	--	IP20
Fan Motor Power Output	(HP)	1
Fan Motor FLA	(A)	5.4
Fan Motor Speed	rpm	1060
Airflow (Hi/Med/Low)	(CFM)	1350/900/860
External Static Pressure	Pa	125
External Static Pressure Range	Pa	0-200
Noise level (Hi)	dB(A)	78
Noise Pressure level (Hi)	dB(A)	68

Condenser & Fan Specifications

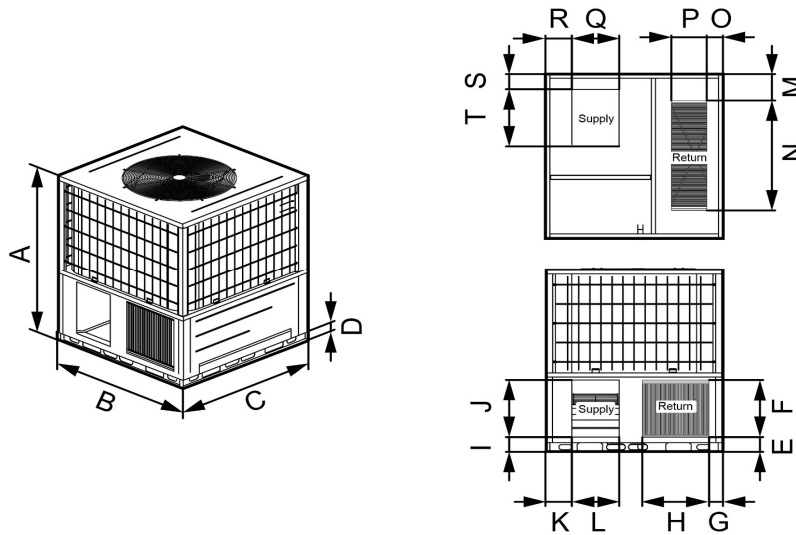
Condenser Material	--	Copper Tube-Aluminum Fin
Condenser Fin Type	--	Ripple
Condenser Fin Color	--	Black
Number of Condenser Rows	No.	3
Number of Condenser Circuits	No.	15
Condenser Length (LxDxW)	in	42.20x27.72x39.69
	mm	1072x704x1008
Condenser Pipe Diameter	inch	5/16 (.3125)
	mm	7.94
Condenser Face Area	sq. ft.	20.88
	m²	1.94
Condenser Tube Pitch (a)	inch	7/8 (0.87) x 3/4 (0.75)
x Row Pitch (b)	mm	22.00x19.05
Condenser Fin Pitch	inch	0.06
	mm	1.60
Condenser Fins per Inch (FPI)	--	16
Fan Type	--	Axial-Flow
Fan Quantity	No.	1
Fan Motor Model	--	SWZ750B
Fan Motor Drive Type	--	Direct Drive
Fan Diameter-Height	in	29.50
	mm	700±1
Fan Motor Insulation Class	--	F
Fan Motor Safe Class	--	IP44
Fan Motor Power Output	(HP)	1
Fan Motor FLA	(A)	4.9
Fan Motor Speed	rpm	720
Moisture Protection	--	IPX4

Unit Main Parts



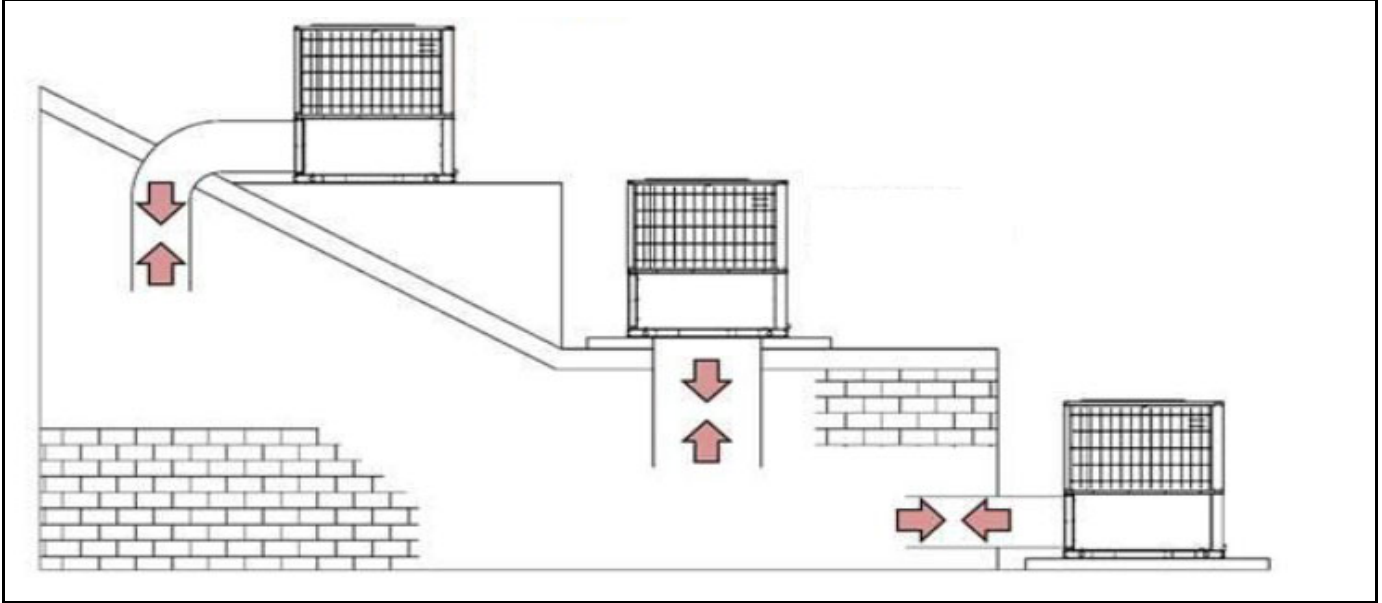
- 1 Condensate fan
- 2 Condensate motor
- 3 Condenser assy
- 4 Service valves
- 5 Compressor
- 6 Evaporation fan
- 7 Evaporation motor
- 8 Evaporator assy
- 9 Electric box assy

Unit Dimensions

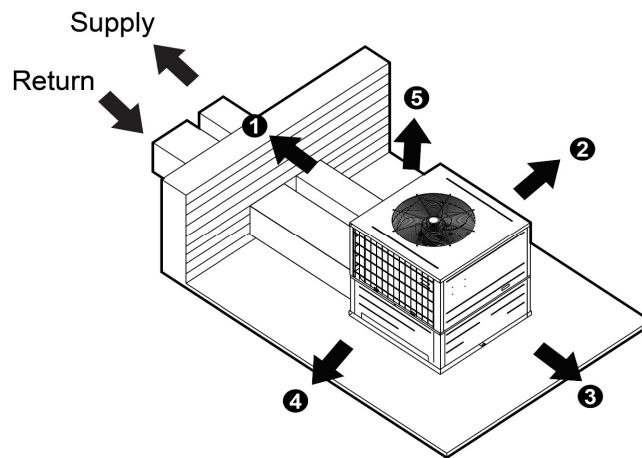


Dimension	A		B		C		D	
ACiQ-PHH1748000K000V	49-1/4 (1250)		44 (1120)		44 (1120)		2-1/2 (65)	
	Side air vents							
	E	size of air return		G	I	size of air supply		K
		F	H			J	L	
	4 (101)	15-3/8 (390)	16-1/2 (420)	3-3/8 (87)	4 (101)	15-3/8 (390)	11-3/4 (300)	6-1/2 (166)
	Bottom air vents							
	M	size of air return		O	R	size of air supply		S
		N	P			Q	T	
7-7/8 (199)	28 (711)	9 (228)	3-3/4 (96)	6-1/2 (166)	11-3/4 (300)	15-3/8 (390)	4 (103)	

Unit Installation Position Options



Unit Minimum Clearance Requirements



DIMENSION(Minimum)	Installation Clearances	
	inch	mm
1	24	610
2	8	203
3	20	508
4	24	610
5	60	1524