



Submittal Data Sheet

Indoor Unit Model#: ACiQ-18-AHD
Outdoor Unit Model#: ACiQ-18-AC-B

18K DUCTED AIR HANDLER & 18K AC-COOLING ONLY CONDENSER

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

System Product Code: 81017554471
Indoor Unit Product Code: 810175550350
Outdoor Unit Product Code: 810175553566



INDOOR UNIT SPECIFICATIONS

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	618.03 / 576.83 / 529.74 / 488.54 / 488.54	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	44 / 43 / 41 / 33 / 33	
Unit Dimensions (W×D×H)	inch	17.52 x 21.02 x 45.00
	mm	445.0 x 534.0 x 1143.0
Packaging Dimensions (W×D×H)	inch	26.57 x 20.87 x 48.62
	mm	675 x 530 x 1235
Net/Gross Weight	lbs	105.82 / 126.76
	kg	48 / 57.5

OUTDOOR UNIT SPECIFICATIONS

Compressor Type	ROTARY	
Compressor Model	KSN140D58UFZ	
Refrigerant	R454B	
Refrigerant Oil Charge (mL)	440	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	1,413	
Outdoor Noise Level (dBA)	54	
Unit Dimensions (W×D×H)	inch	31.69 x 12.99 x 21.81
	mm	805 x 330 x 554
Packaging Dimensions (W×D×H)	inch	36.02 x 14.57 x 24.21
	mm	915 x 370 x 615
Net/Gross Weight	lbs	66.80 / 73.41
	kg	30.3 / 33.3

EFFICIENCY RATINGS

Cooling		
SEER2		18.5
EER2		11.70

COOLING PERFORMANCE

Cooling (Btu/hr)		
Rated Capacity		18000
Min/Max Capacity		7200 ~ 20000
Moisture Removal (L/h)		1.7
Standard Operating Range (°F/°C)		-13 ~ 122 (-25 ~ 50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB	

REFRIGERANT PIPING SPECIFICATIONS

Throttle type (Indoor)	EXV
Throttle type (Outdoor)	EXV
Liquid Size	9.52mm (3/8in)
Gas Size	19mm (3/4in)
Max. Piping Length (ft/m)	98 (30)
Max. Height Difference (ft/m)	66 (20)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	42.33 (1.2)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.7 (65)
Connection Method	Flared*
*The gas valve of the outdoor unit is 5/8", 5/8" to 3/4" flare to flare connector is required for the installation.	

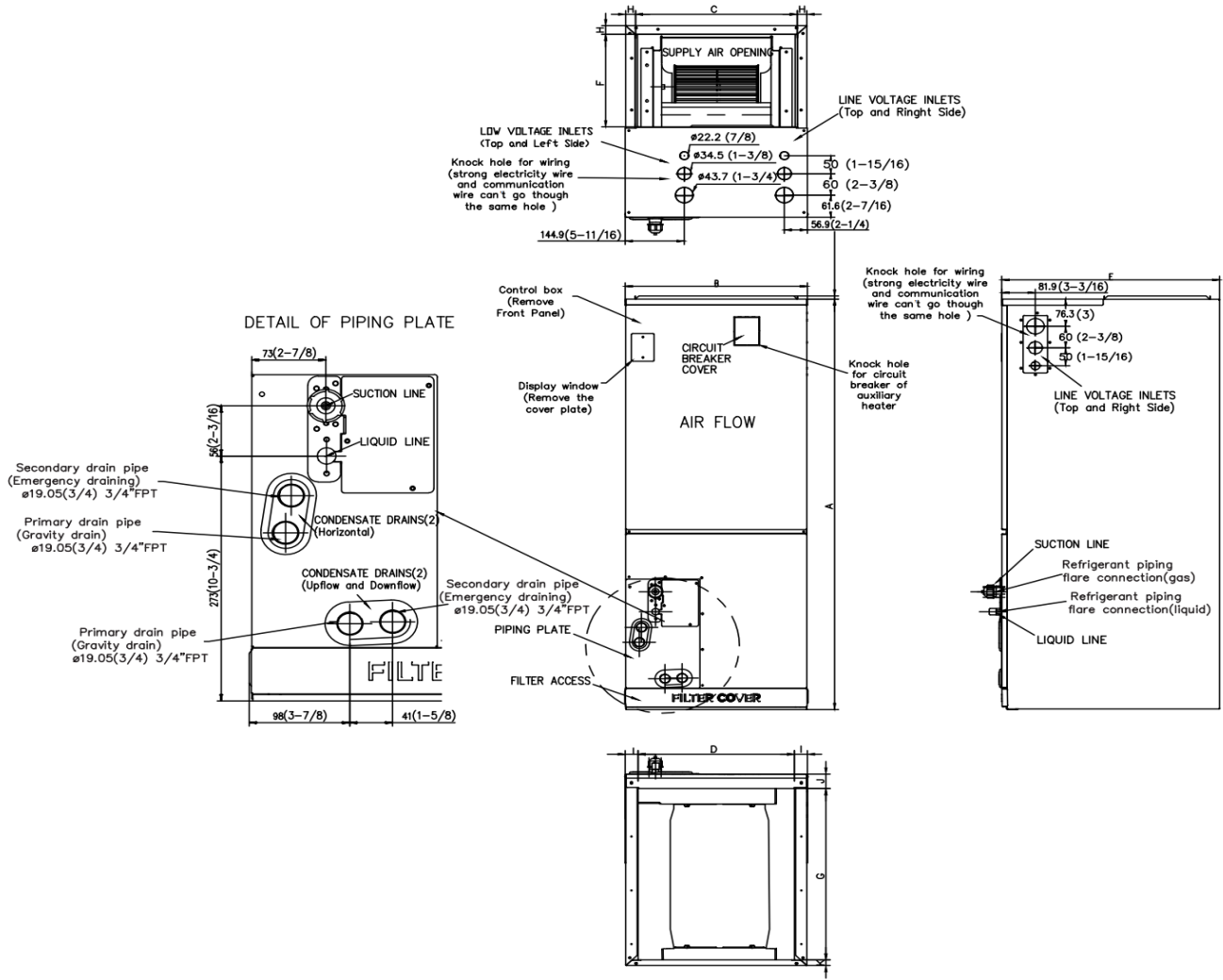
ELECTRICAL SPECIFICATIONS

Indoor Power Supply	115/208/230V, 60Hz, 1Ph
Indoor MCA 115V / (208/230V)	5.5 / 4.0
Indoor MOP	15
Outdoor Power Supply	208/230V, 60Hz, 1Ph
Outdoor MCA	16
Outdoor MOP	20
Communication Wiring	AWG 20-2
Compressor RLA	12
Outdoor Fan Motor RLA	0.5
Indoor Fan Motor RLA	2
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1540 (400 ~ 1850)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

FEATURES

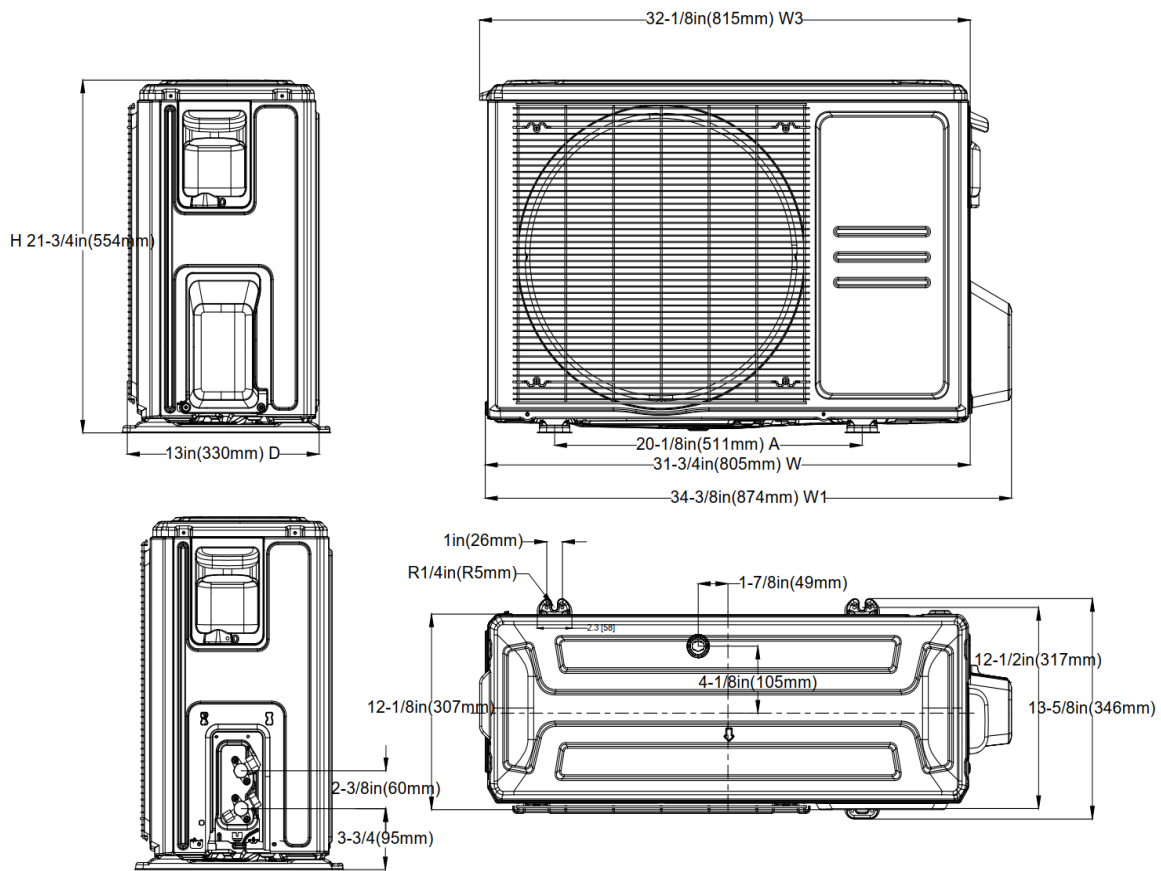
- Multi-position installation: horizontal (left or right), vertical (up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation & boosts efficiency (optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller: 120N (X6)
 - Two way communication wired controller with built-in WiFi: 120N (X6W)
 - Wireless remote controller
 - Third-Party 24V Thermostat
- Adaptive Control System
- Chassis heater and crankcase heater equipped as standard

INDOOR UNIT DIMENSIONS

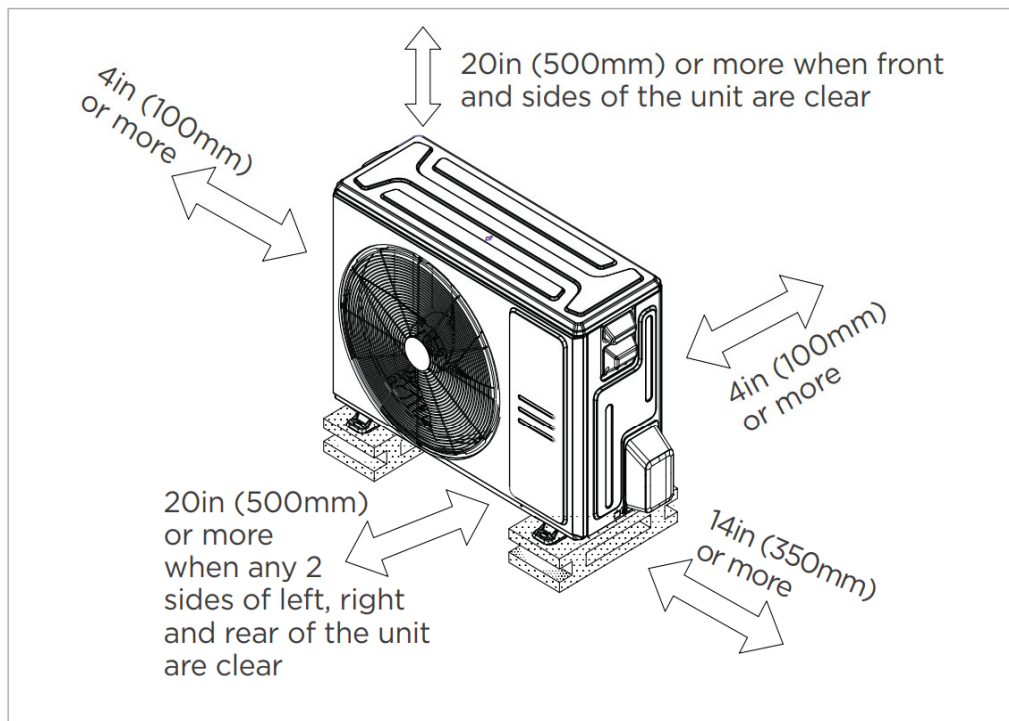


Dimensions	Model	18k/24k		30k/36k		48k/60k	
		inch	mm	inch	mm	inch	mm
A	Model Height	45	1143	49	1245	53	1346
B	Model Width	17-1/2	445	21	534	24-1/2	622
C	Supply Air Opening Width	15-5/8	397	19-1/8	486	22-5/8	575
D	Return Air Opening Width	15-1/8	384	18-5/8	473	22-1/8	562
E	Model Depth	21	534	21	534	21	534
F	Supply Air Opening Depth	10-1/4	260	10-1/4	260	10-1/4	260
G	Return Air Opening Depth	18-3/4	476	18-3/4	476	18-3/4	476
H	Supply Air Opening Clearance	15/16	24	15/16	24	15/16	24
I	Return Air Opening Side Clearance	1-1/4	32	1-1/4	32	1-1/8	28
J	Return Air Opening Front Clearance	1-1/2	38	1-5/8	41	1-5/8	41
K	Return Air Opening Back Clearance	5/8	16	5/8	16	3/4	19

OUTDOOR UNIT DIMENSIONS



INSTALLATION INSTRUCTIONS FOR OUTDOOR UNIT



Meets all spatial requirements shown in Installation Clearance Requirements above.

