



Submittal Data Sheet

Indoor Unit Model#: ACiQ-18W-PB
Outdoor Unit Model#: ACiQ-18-EHPD

18K CEILING-MOUNT (PANCAKE-STYLE) AIR HANDLER & 18K STD. HEAT PUMP SYSTEM

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

System Product Code: 810175553139
Indoor Unit Product Code: 810175553092
Outdoor Unit Product Code: 810175550367



INDOOR UNIT SPECIFICATIONS

ESP (in.W.G)		0-0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		600 / 565 / 530 / 489 / NA
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		NA / 55.5 / 52.5 / 50.5 / NA
Dimension (W×D×H)	inch	43.23 x 23.33 x 10.93
	mm	1098 x 592.7 x 277.6
Package (W×D×H)	inch	47.24 x 26.77 x 13.58
	mm	1200 x 680 x 345
Net/Gross Weight	lbs	54 / 58
	kg	53.5 / 58

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		ROTARY
Compressor Model		KSN140D58UFZ
Refrigerant		R454B
Refrigerant Oil Charge (mL)		440
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1451.0
Outdoor Noise Level (dBA)		56
Dimension (W×D×H)	inch	31.69 x 12.99 x 21.81
	mm	805 x 330 x 554
Package (W×D×H)	inch	36.02 x 14.57 x 24.21
	mm	915 x 370 x 615
Net/Gross Weight	lbs	77.16 / 83.77
	kg	35 / 38

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	16.8	HSPF2-4	8.8
EER2	11.5	COP	3.5

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	6000 ~ 20000
Moisture Removal (L/h)	1.46
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

HEATING PERFORMANCE

Heating (Btu/hr)	
1. @ 47°F Rated	18000
2. @ 47°F Min/Max Capacity	5500 ~ 19600
3. @ 17°F Rated	11800
4. @ 5°F Rated: Capacity / COP	11400 / 1.8
5. @ 5°F Max: Capacity	11400
Standard Operating Range (°F/°C)	-13 ~ 75 (-25~24)
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Heating Conditions, Compressor Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

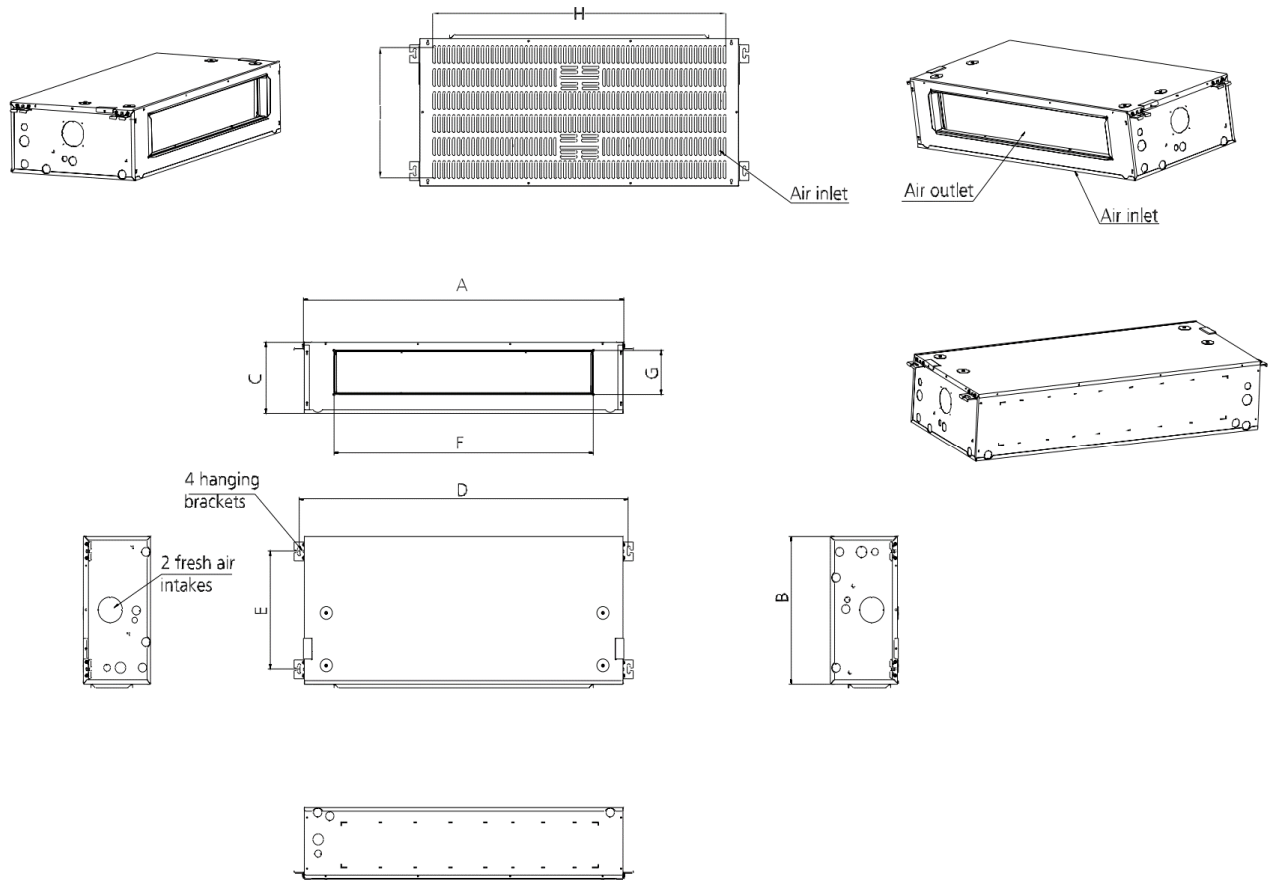
ELECTRICAL SPECIFICATIONS

Indoor Power Supply	115/208/230, 60Hz, 1Ph
Indoor MCA 115V / (208/230V)	115V: 6; 208/230V: 5
Indoor MOP	15
Outdoor Power Supply	115/208/230, 60Hz, 1Ph
Outdoor MCA	16
Outdoor MOP	20
Communication Wiring	AWG 20/2
Compressor RLA	10
Outdoor Fan Motor RLA	0.8
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	115V: 4; 208/230V: 3.5
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1565 (600 ~ 1,900)
System Power Input @ Heating (W)	1512 (390 ~ 1700)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

REFRIGERANT PIPING SPECIFICATIONS

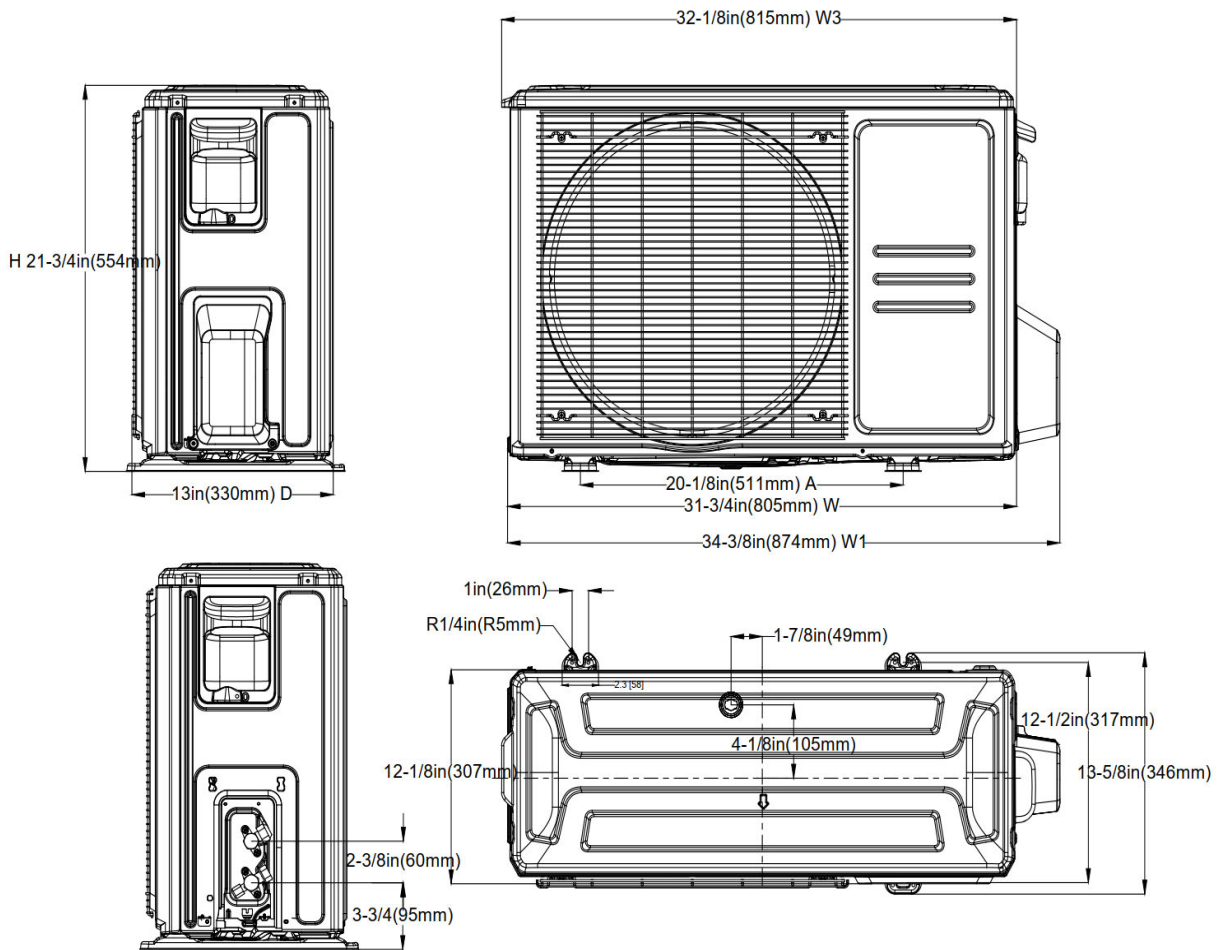
Throttle type (Indoor)	EXV
Throttle type (Outdoor)	EXV
Liquid Size	9.52mm (3/8in)
Gas Size	19mm (3/4in)
Max. Piping Length (ft/m)	98 (30)
Max. Height Difference (ft/m)	66 (20)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	51.15 (1.45)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

INDOOR UNIT DIMENSIONS

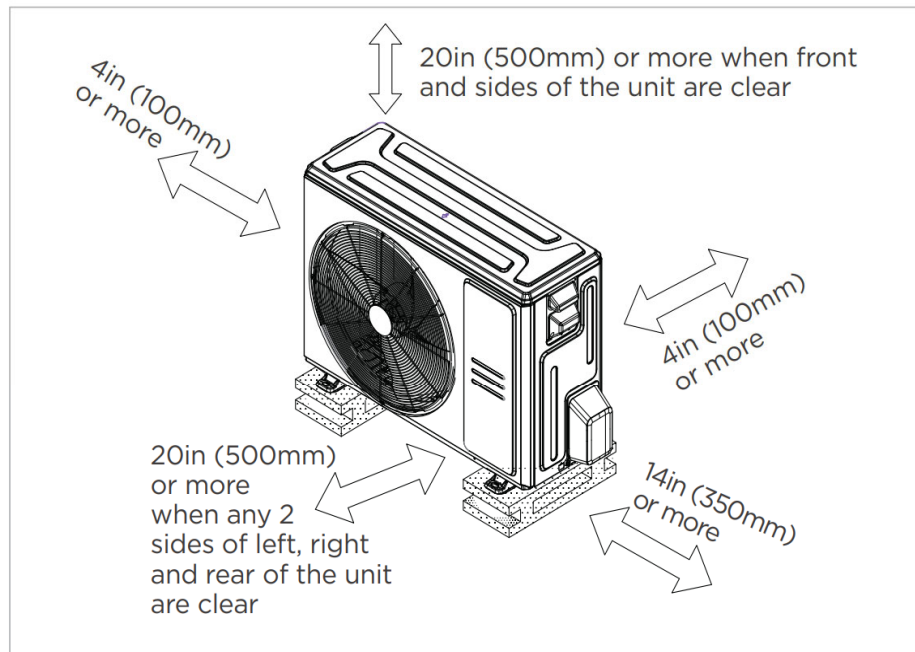


Dimensions \ Model			18k	24k	30k/	36k
			inch(mm)	inch(mm)	inch(mm)	inch(mm)
Outline Dimension	A	Model Model	39-15/16 (1015)	45-7/8 (1165)	51-15/16 (1320)	58-7/8 (1495)
	B	Model Width	23-5/16 (593)	23-5/16 (593)	23-5/16 (593)	23-5/16 (593)
	C	Model Height	10-15/16 (278)	10-15/16 (278)	10-15/16 (278)	10-15/16 (278)
Size Of Mounted Lug	D	Mounted Lug Length	41-5/8 (1057)	47-1/2 (1207)	53-5/8 (1362)	60-1/2 (1537)
	E	Mounted Lug Width	18-1/8 (460)	18-1/8 (460)	18-1/8 (460)	18-1/8 (460)
Air Outlet Opening Size	F	Air Outlet Length	30-5/16 (769)	36-3/16 (919)	42-5/16 (1074)	49-3/16 (1249)
	G	Air Outlet Width	6-7/8 (174)	6-7/8 (174)	6-7/8 (174)	6-7/8 (174)
Air Return Opening Size	H	Air Return Length	38-3/8 (975)	44-5/16 (1125)	50-3/8 (1280)	57-1/4 (1455)
	I	Air Return Width	21-1/8 (536)	21-1/8 (536)	21-1/8 (536)	21-1/8 (536)

OUTDOOR UNIT DIMENSIONS

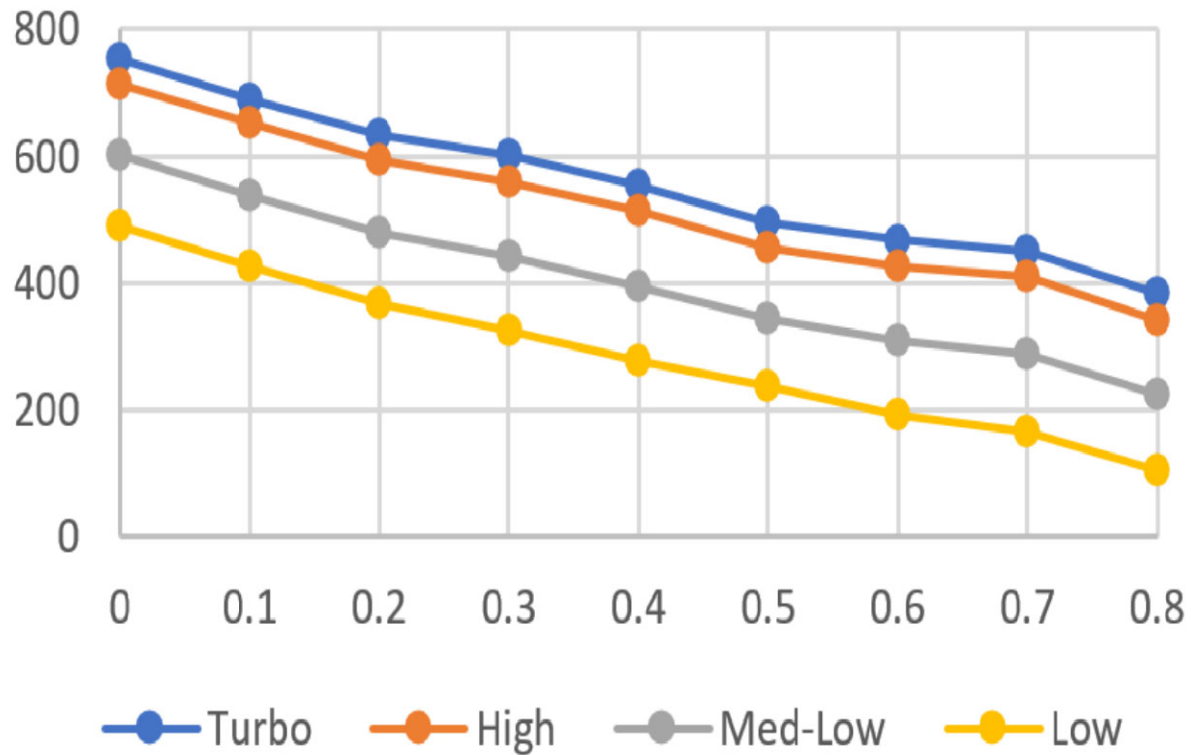


INSTALLATION INSTRUCTIONS FOR OUTDOOR UNIT



Meets all spatial requirements shown in Installation Clearance Requirements above.

18K



FEATURES

- High efficiency up to 16.8 SEER2, 11.5 EER2, 8.8 HSPF2
- Aluminum Coil
- IDU compatible with 115V and 230V
- Constantly Air Flow system up to 0.80 In.W.G
- Optional Auxiliary heat kit up to 10kW
- 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 wiring method on 24V and RS485
- Downward or Backward (optional) air inlet
- Chassis heater and crankcase heater equipped as standard