



Submittal Data Sheet

Indoor Unit Model#: ACiQ-18W-HP230C

Outdoor Unit Model#: ACiQ-18Z-HP230C

18K (230V) Standard Heat Single-Zone Heat Pump System

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



INDOOR UNIT SPECIFICATIONS

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		429.7 / 388.5 / 259.0 / 217.8 / NA
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		50.5 / 45 / 36 / 24 / 19
Dimension (WxDxH)	inch	37.99 x 8.46 x 12.56
	mm	965.0 x 215.0 x 319.0
Package (WxDxH)	inch	41.14 x 12.01 x 16.14
	mm	1045 x 305 x 410
Net/Gross Weight	lbs	24.47 / 32.63
	kg	11.1 / 14.8

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		ROTARY
Compressor Model		KSN140D21UFZ
Refrigerant		R454B
Refrigerant Oil Charge (mL)		440
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1235.3
Outdoor Noise Level (dBA)		56.0
Dimension (WxDxH)	inch	31.69 x 12.99 x 21.81
	mm	805.0 x 330.0 x 554.0
Package (WxDxH)	inch	36.02 x 14.57 x 24.21
	mm	915 x 370 x 615
Net/Gross Weight	lbs	72.31 / 78.48
	kg	32.8 / 35.6

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	19.2	HSPF2-4	9.6
EER2	10.8	COP	3.06

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	18000
Min./Max. Capacity	4100 ~ 19000
Moisture Removal (L/h)	2.5
Standard Operating Range (°F/°C)	5 ~ 122 (-15 ~ 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	18800
1. @ 47°F Min./Max. Capacity	6200 ~ 20200
2. @ 17°F Rated	12300
3. @ 5°F Rated: Capacity / COP	11500 / 2.14
3. @ 5°F Max: Capacity	11500
Standard Operating Range (°F/°C)	5 ~ 75 (-15 ~ 24)
1. Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 17°F DB/15°F WB
3. Conditions:	Indoor: 70°F DB/60°F WB
	Outdoor: 5°F DB/5°F WB

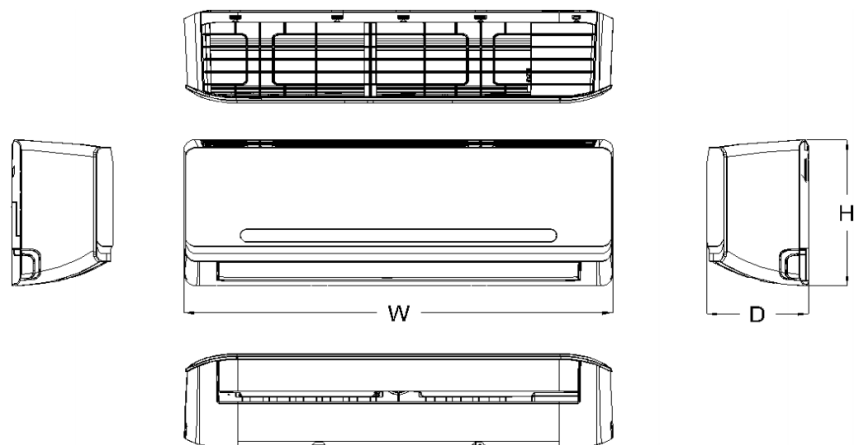
ELECTRICAL SPECIFICATIONS

Power Supply	208/230V, 60Hz, 1Ph
System MCA	15.0
Connection Wiring	14#x4
System MOCP	20
Compressor RLA	10.0
Outdoor Fan Motor RLA	0.4
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.5
Indoor Fan Motor W	30
System Power Input @ Cooling (W)	1667 (365 ~ 1720)
System Power Input @ Heating (W)	1801 (380 ~ 1850)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

REFRIGERANT PIPING SPECIFICATIONS

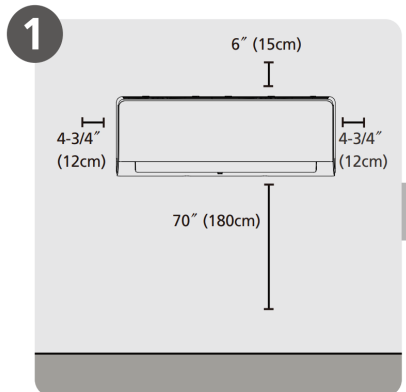
Throttle type (Indoor)	N/A
Throttle type (Outdoor)	Capillary
Liquid Size	6.35mm (1/4in)
Gas Size	12.7mm (1/2in)
Max. Piping Length (ft/m)	98.40 (30)
Max. Height Difference (ft/m)	65.60 (20)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	40.57 (1.15)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.16 (15)
Connection Method	Flared

Indoor Unit Dimensions

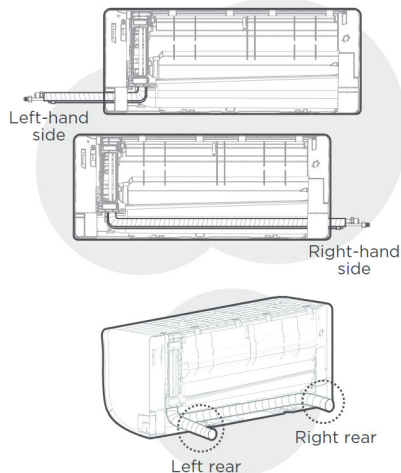


Capacity	Body Code	W(inch/mm)	D(inch/mm)	H(inch/mm)
9k Entry Tier Series	A	28-1/2in /722mm	7-3/8in /187mm	11-3/8in /290mm
9k~12k	B	31-1/2in /802mm	7-1/2in /189mm	11-3/4in /297mm
18k Entry Tier Series	D	38in /965mm	8-1/2in /215mm	12-1/2in /319mm
18k~24k	E	42-1/2in /1080mm	8-7/8in /226mm	13-1/4in /335mm
30k~36k	F	49-1/2in /1259mm	11-1/8in /282mm	14-1/4in /362mm

Indoor Unit Installation Instructions

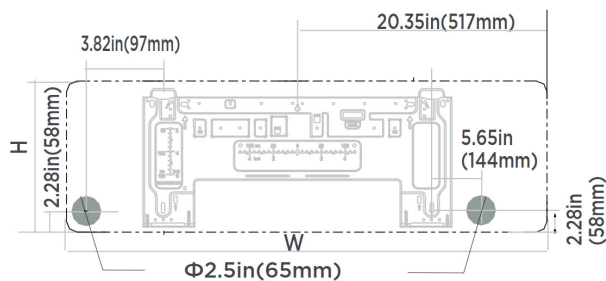


Select Installation Location



NOTE:

Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit. You have four options for the exit direction of the piping.

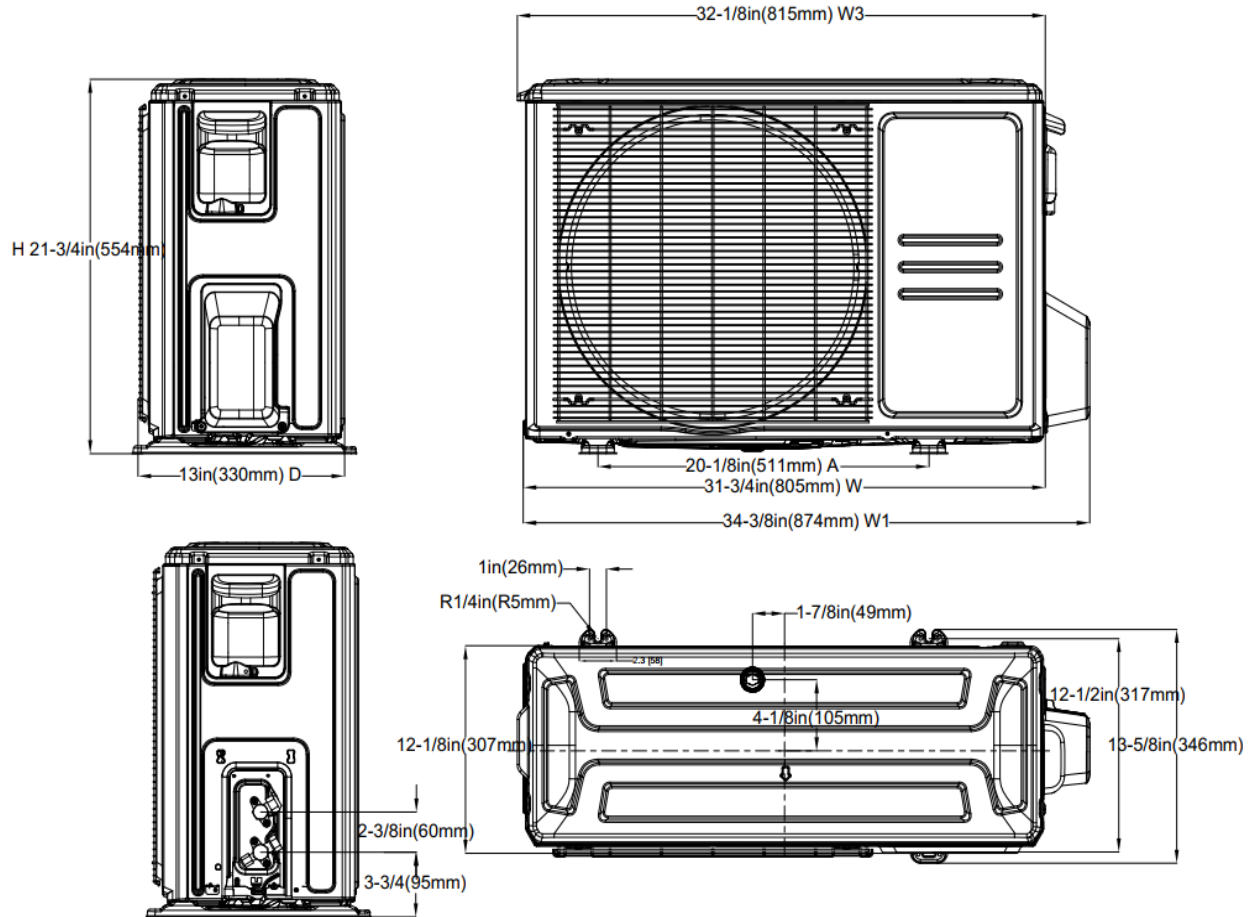


Indoor unit dimensions(WxH):
37.99in(965mm)x12.56in(319mm)

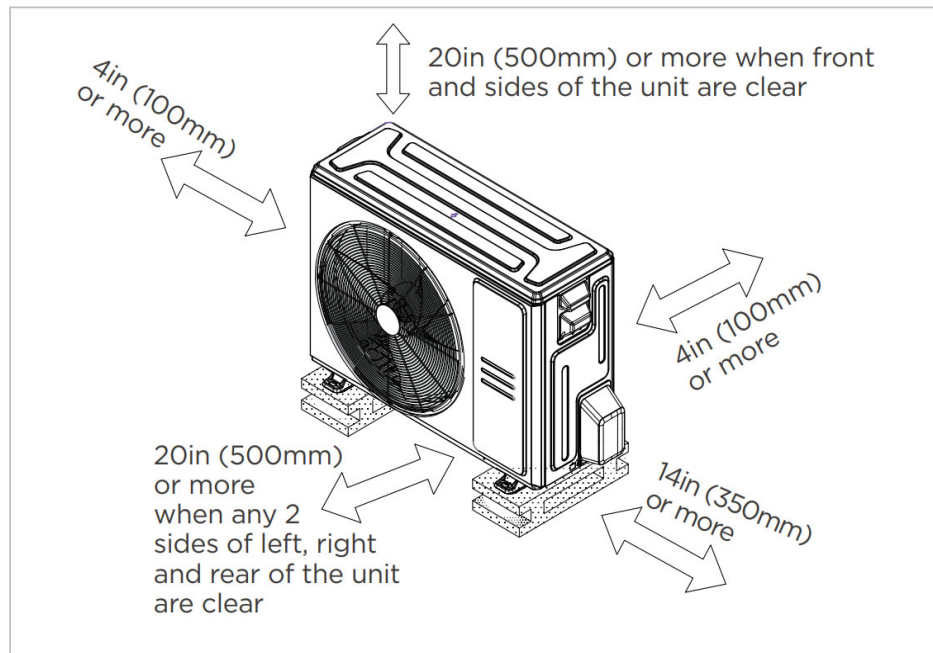
NOTE:

When the gas side connective pipe is Φ (5/8in) 16mm or more, the wall hole should be (3-1/2in) 90mm.

Outdoor Unit Dimensions



Outdoor Unit Installation Instructions



☒ Meets all spatial requirements shown in Installation Clearance Requirements above.

Features

- Indoor unit TU1 copper coil
- Humidity control
- 1~100% fan speed setting
- WiFi capability: through WiFi dongle or wired controller with built-in WiFi
- OTA (by using WiFi dongle)
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Infrared wired controller: 120L
 - Wireless remote controller
 - Third-Party 24V Thermostat*

*24V interface is required.