



Submittal Data Sheet

Indoor Unit Model#: ACiQ-12W-HP230C

Outdoor Unit Model#: ACiQ-12Z-HP230C

12K (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)		359.0 / 306.1 / 206.0 / 144.2 / NA
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		44.0 / 38.0 / 32.0 / 22.5 / 21
Dimension (W×D×H)	inch	31.57 x 7.44 x 11.69
	mm	802.0 x 189.0 x 297.0
Package (W×D×H)	inch	34.45 x 11.22 x 14.96
	mm	875 x 285 x 380
Net/Gross Weight	lbs	19.40 / 25.13
	kg	8.8 / 11.4

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		ROTARY
Compressor Model		KSN98D64UFZ3
Refrigerant		R454B
Refrigerant Oil Charge (mL)		300
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1235.3
Outdoor Noise Level (dBA)		54.0
Dimension (W×D×H)	inch	30.12 x 11.93 x 21.85
	mm	765.0 x 303.0 x 555.0
Package (W×D×H)	inch	34.92 x 13.27 x 24.02
	mm	887 x 337 x 610
Net/Gross Weight	lbs	59.08 / 64.37
	kg	26.8 / 29.2

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	21.3	HSPF2-4	9.1
EER2	10.8	COP	3.18

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	12000
Min/Max Capacity	1700~13300
Moisture Removal (L/h)	1.5
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	12000
1. @ 47°F Min./Max. Capacity	3500 ~ 13400
2. @ 17°F Rated	8700
3. @ 5°F Rated: Capacity / COP	8000 / 1.90
3. @ 5°F Max: Capacity	8000
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

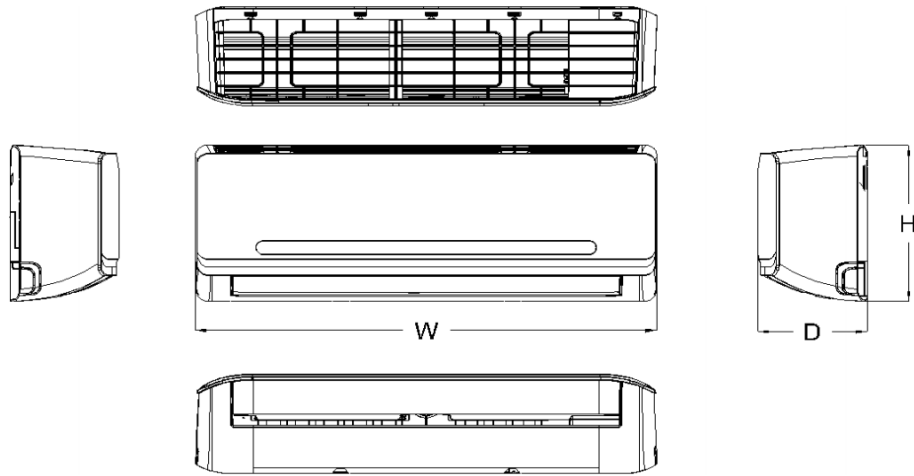
ELECTRICAL SPECIFICATIONS

Power Supply	208/230V, 60Hz, 1Ph
System MCA	13.0
Connection Wiring	14#x4
System MOCP	15
Compressor RLA	7.5
Outdoor Fan Motor RLA	0.4
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.2
Indoor Fan Motor W	20
System Power Input @ Cooling (W)	1111 (140 ~ 1400)
System Power Input @ Heating (W)	1106 (325 ~ 1350)
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

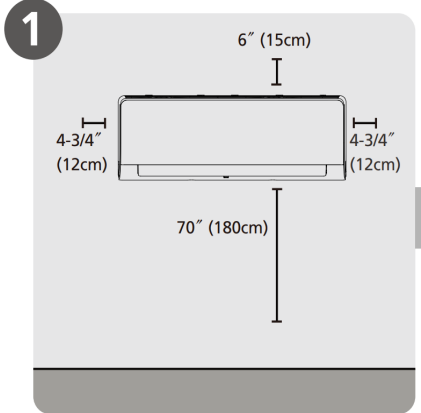
Throttle type (Indoor)	N/A
Throttle type (Outdoor)	Capillary
Liquid Size	6.35mm (1/4in)
Gas Size	9.52mm (3/8in)
Max. Piping Length (ft/m)	82.00 (25)
Max. Height Difference (ft/m)	49.20 (15)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/g)	24.69 (0.7)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.16 (15)
Connection Method	Flared

Indoor Unit Dimensions

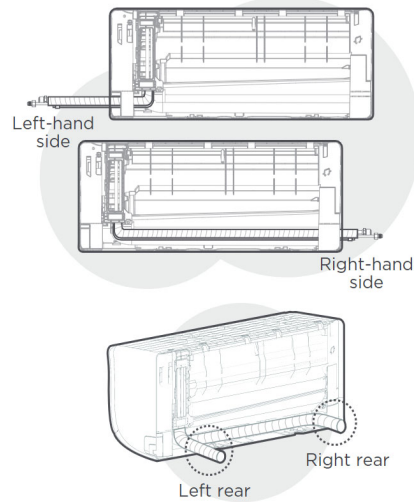


Capacity	Body Code	W(inch/mm)	D(inch/mm)	H(inch/mm)
9k Entry Tier Series	A	28-1/2in /722mm	7-3/8in /187mm	11-3/8in /290mm
9k~12k	B	31-1/2in /802mm	7-1/2in /189mm	11-3/4in /297mm
18k Entry Tier Series	D	38in /965mm	8-1/2in /215mm	12-1/2in /319mm
18k~24k	E	42-1/2in /1080mm	8-7/8in /226mm	13-1/4in /335mm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

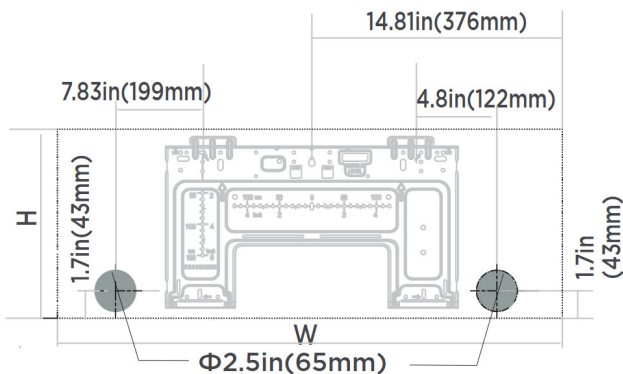
Indoor Unit Installation Instructions



Select Installation Location



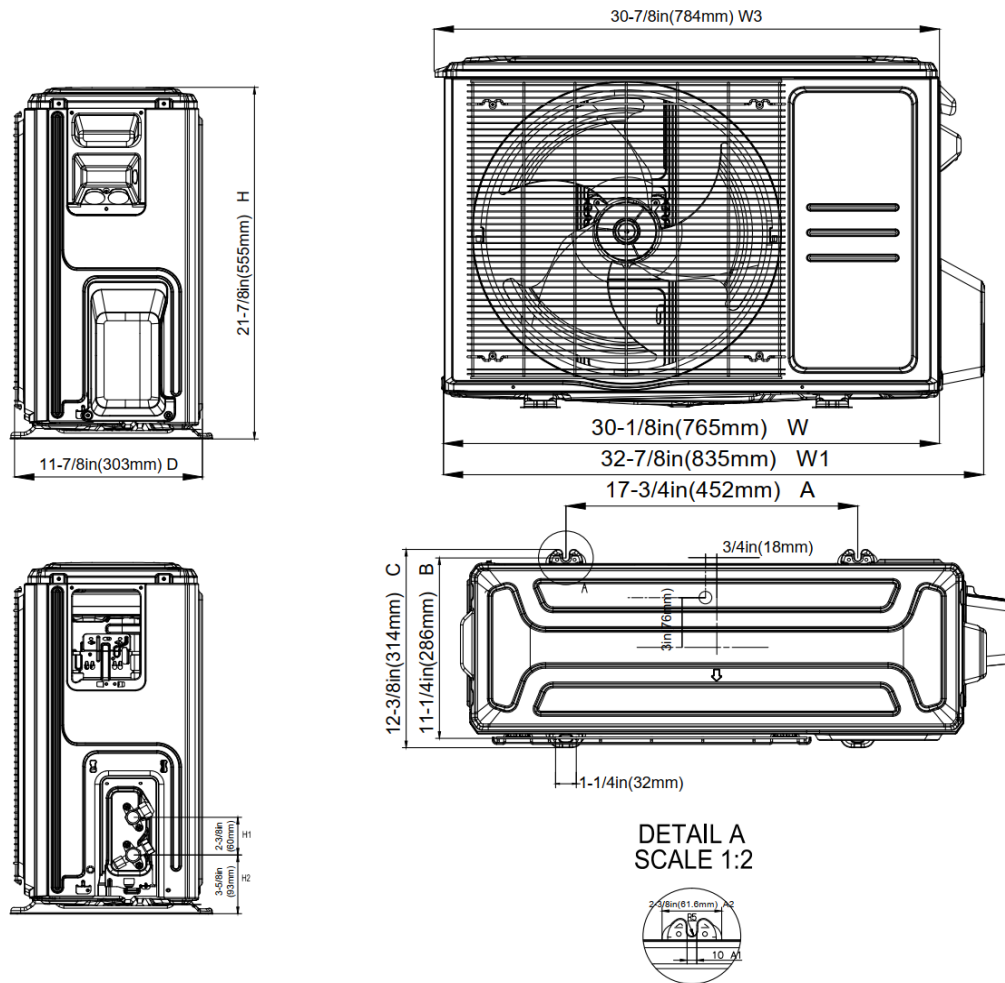
NOTE:
Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit. You have four options for the exit direction of the piping.



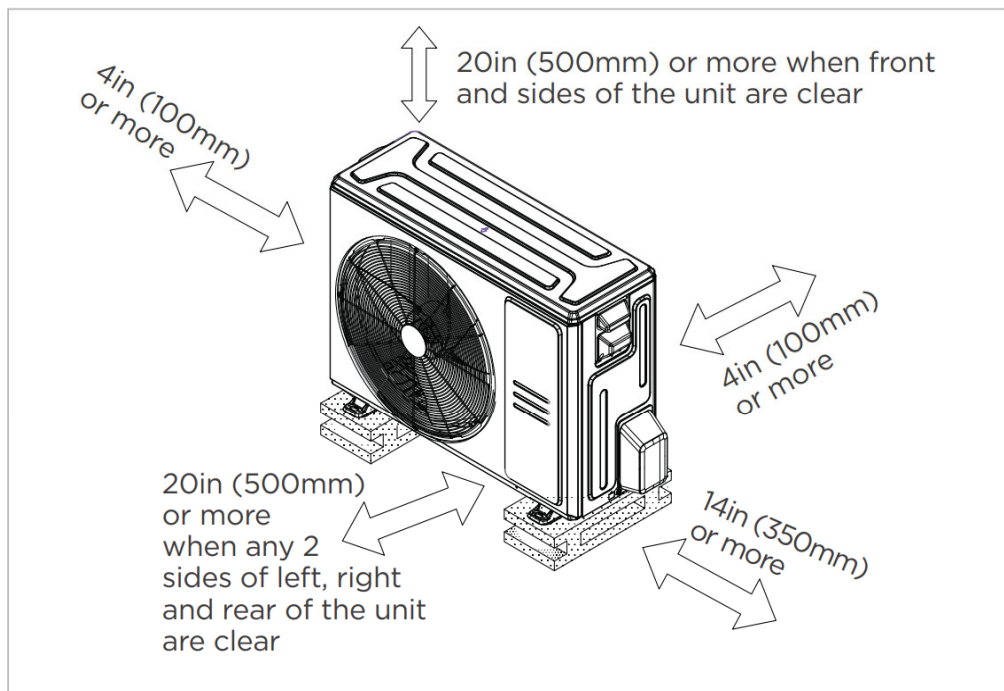
Indoor unit dimensions(WxH):
31.54in(802mm)x11.69in(297mm)

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.