



# Submittal Data Sheet

Indoor Unit Model#: ACiQ-09WS-HP230C

Outdoor Unit Model#: ACiQ-09ZS-HP230C

## 9K (230V) Standard Heat Single-Zone Heat Pump System

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

System Product Code: 810175550169

Indoor Unit Product Code: 810175550176

Outdoor Unit Product Code: 810175550183



### INDOOR UNIT SPECIFICATIONS

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)	382.6 / 294.3 / 194.2 / 153.0 / NA	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	45.5 / 42 / 36 / 21 / 19.5	
Dimension (W×D×H)	inch	31.57 x 7.87 x 11.61
	mm	802.0 x 200.0 x 295.0
Package (W×D×H)	inch	34.45 x 11.22 x 14.96
	mm	875 x 285 x 380
Net/Gross Weight	lbs	18.96 / 24.25
	kg	8.6 / 11

### OUTDOOR UNIT SPECIFICATIONS

Compressor Type	ROTARY	
Compressor Model	KSK103D33UEZ3	
Refrigerant	R454B	
Refrigerant Oil Charge (mL)	310	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	1235.3	
Outdoor Noise Level (dBA)	52.5	
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	62.17 / 67.68
	kg	28.2 / 30.7

### EFFICIENCY RATINGS

Cooling		Heating	
SEER2	24.6	HSPF2-4	13.0
EER2	14.7	COP	3.66

### COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	9000
Min./Max. Capacity	3100~10900
Moisture Removal (L/h)	0.7
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

### HEATING PERFORMANCE

Heating (Btu/hr)	
1. @ 47°F Rated	10000
1. @ 47°F Min./Max. Capacity	4200~14200
2. @ 17°F Rated	8600
3. @ 5°F Rated: Capacity / COP	8200 / 2.33
3. @ 5°F Max: Capacity	8200
Standard Operating Range (°F/°C)	-13~75 (-25~24)
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

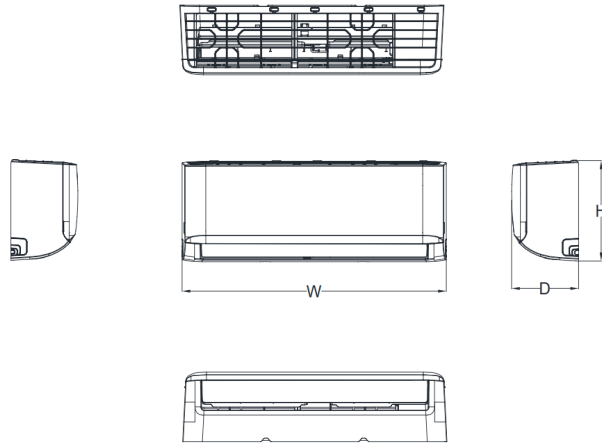
### ELECTRICAL SPECIFICATIONS

Power Supply	208/230V, 60Hz, 1Ph
System MCA	12.0
Connection Wiring	14#x4
System MOP	15
Compressor RLA	7.3
Outdoor Fan Motor RLA	0.6
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.5
Indoor Fan Motor W	13
System Power Input @ Cooling (W)	612 (210 ~ 820)
System Power Input @ Heating (W)	800 (230 ~1240)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

### REFRIGERANT PIPING SPECIFICATIONS

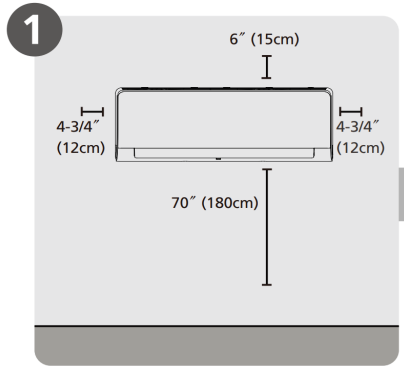
Throttle type (Indoor)	N/A
Throttle type (Outdoor)	EXV
Liquid Size	6.35mm (1/4in)
Gas Size	9.52mm (3/8in)
Max. Piping Length (ft/m)	82.00 (25)
Max. Height Difference (ft/m)	49.20 (15)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	32.45 (0.92)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.16 (15)
Connection Method	Flared

### Indoor Unit Dimensions

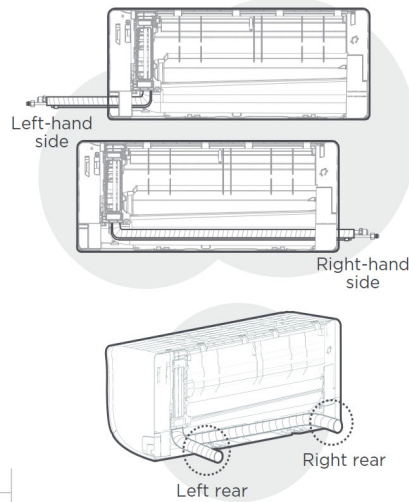


Capacity	Body Code	W(inch/mm)	D(mm/inch)	H(mm/inch)
6K~9K	A	28-3/4in /729mm	7-7/8in /200mm	11-1/2in /292mm
9K~12K	B	31-5/8in /802mm	7-7/8in /200mm	11-5/8in /295mm
18K	C	38-1/4in /971mm	9in/228mm	12-5/8in /321mm
18K~24K	D	42-5/8in /1082mm	9-1/4in/234mm	13-1/4in /337mm
30K~36K	F	49-5/8in /1259mm	11-1/8in/283mm	14-1/4in /362mm

### Indoor Unit Installation Instructions

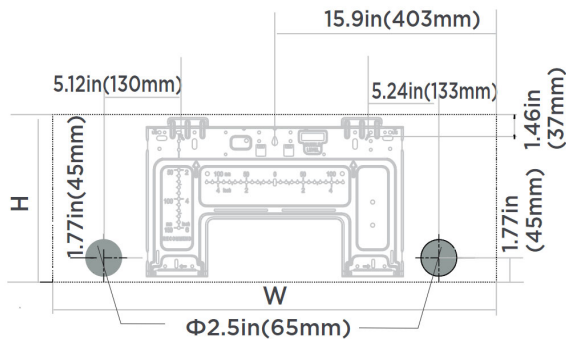


**Select Installation Location**



#### 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.



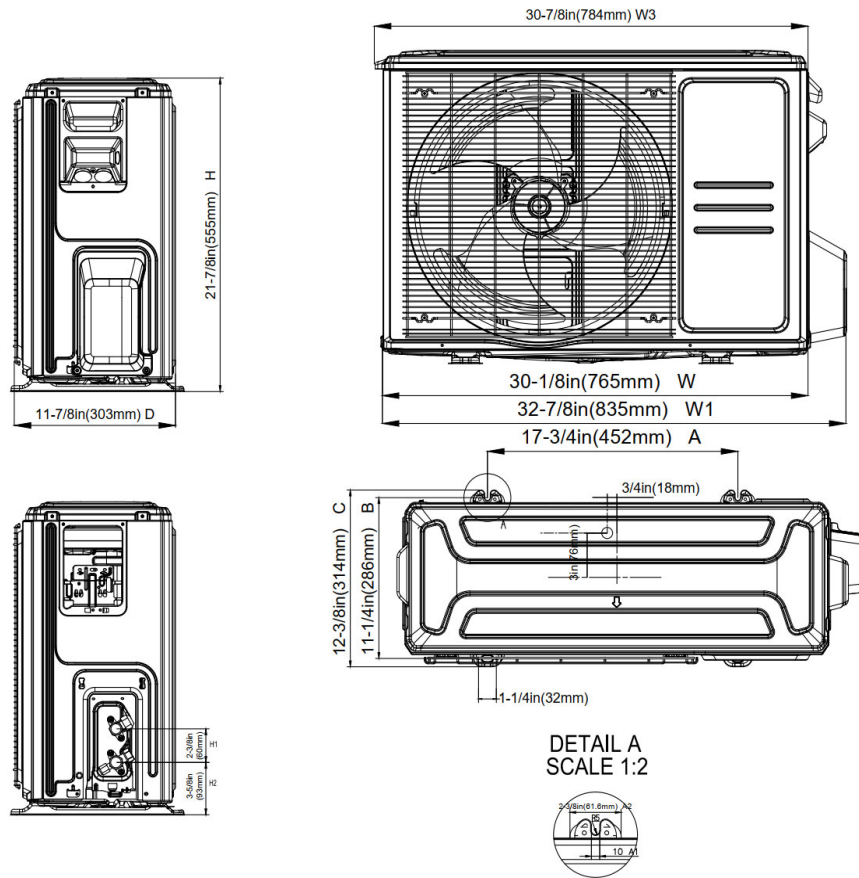
**Indoor unit dimensions(WxH):**

31.7in(806mm)x11.65in(296mm)

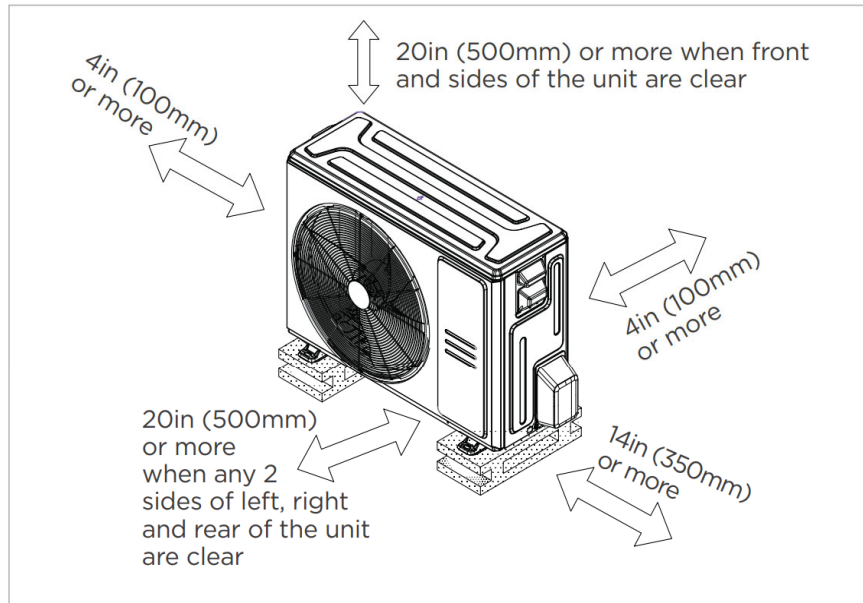
#### NOTE:

When the gas side connective pipe is  $\Phi$  (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.