



Submittal Data Sheet

Indoor Unit Model#: ACiQ-09CC-HH-MC
Outdoor Unit Model#: ACiQ-09ZPL-HP230C

4-Way Ceiling Cassette Heat Pump System

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

System Product Code: 810175551401
Indoor Unit Product Code: 810175551111
Outdoor Unit Product Code: 810175550947



EFFICIENCY RATINGS

Cooling		Heating	
SEER2	22.6	HSPF2-4	12.1
EER2	14.0	COP	4.00

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	9000
Min/Max Capacity	3700~13600
Moisture Removal (L/h)	0.88
Standard Operating Range (°F/°C)	-22~122 (-30~50)
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	5100~15700
2. @ 17°F Rated	9700
3. @ 5°F Rated: Capacity / COP	11000 / 1.84
3. @ 5°F Max: Capacity	11000
Standard Operating Range (°F/°C)	-22~75 (-30~24)
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

INDOOR UNIT SPECIFICATIONS

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		353.2 / 312.0 / 264.9 / 182.5 / 147.2
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		42.5 / 40.0 / 37.5 / 26.0 / 24.0
Dimension (W×D×H)	inch	22.44 x 22.44 x 9.65
	mm	570.0 x 570.0 x 245.0
Package (W×D×H)	inch	28.15 x 25.20 x 11.61
	mm	715 x 640 x 295
Net/Gross Weight	lbs	35.27 / 41.89
	kg	16 / 19

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		ROTARY
Compressor Model		KTN110D42UFZ
Refrigerant		R454B
Refrigerant Oil Charge (mL)		350
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1471.5
Outdoor Noise Level (dBA)		55.0
Dimension (W×D×H)	inch	31.69 x 12.99 x 21.81
	mm	805.0 x 330.0 x 554.0
Package (W×D×H)	inch	36.02 x 14.57 x 24.21
	mm	915 x 370 x 615
Net/Gross Weight	lbs	72.75 / 78.70
	kg	33 / 35.7

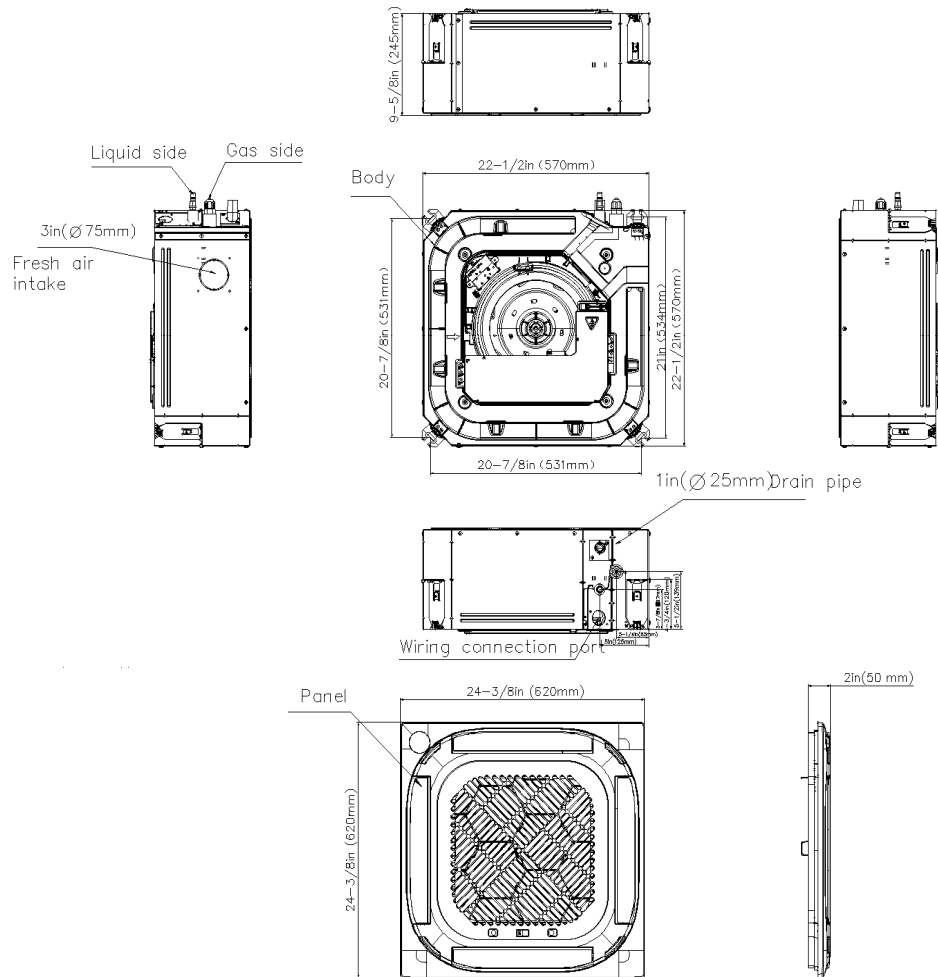
ELECTRICAL SPECIFICATIONS

Power Supply		208/230V, 60Hz, 1Ph
System MCA		15.00
Connection Wiring		14#x4
System MOP		15
Compressor RLA		10.4
Outdoor Fan Motor RLA		0.6
Outdoor Fan Motor W		34
Indoor Fan Motor RLA		0.8
Indoor Fan Motor W		45
System Power Input @ Cooling (W)		643 (200 ~ 1150)
System Power Input @ Heating (W)		733 (285 ~ 1330)
MCA: Min. circuit amps (A)		MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)		W: Fan motor rated output (W)

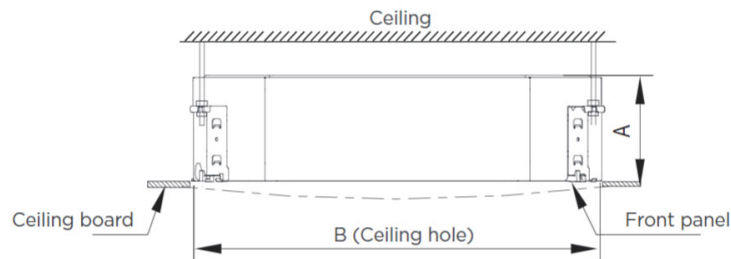
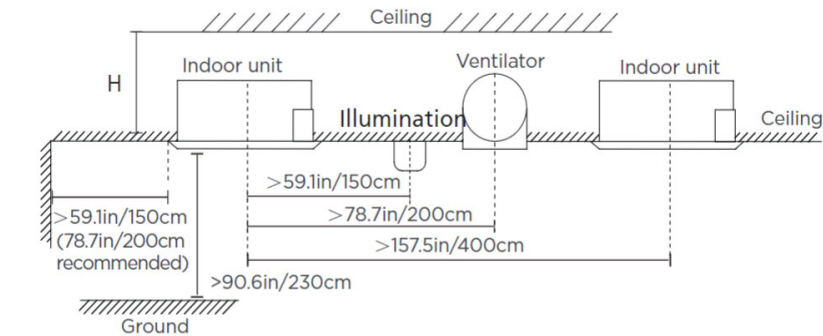
REFRIGERANT PIPING SPECIFICATIONS

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)	35.27 (1.00)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.16 (15)
Connection Method	Flared

Indoor Unit Dimensions



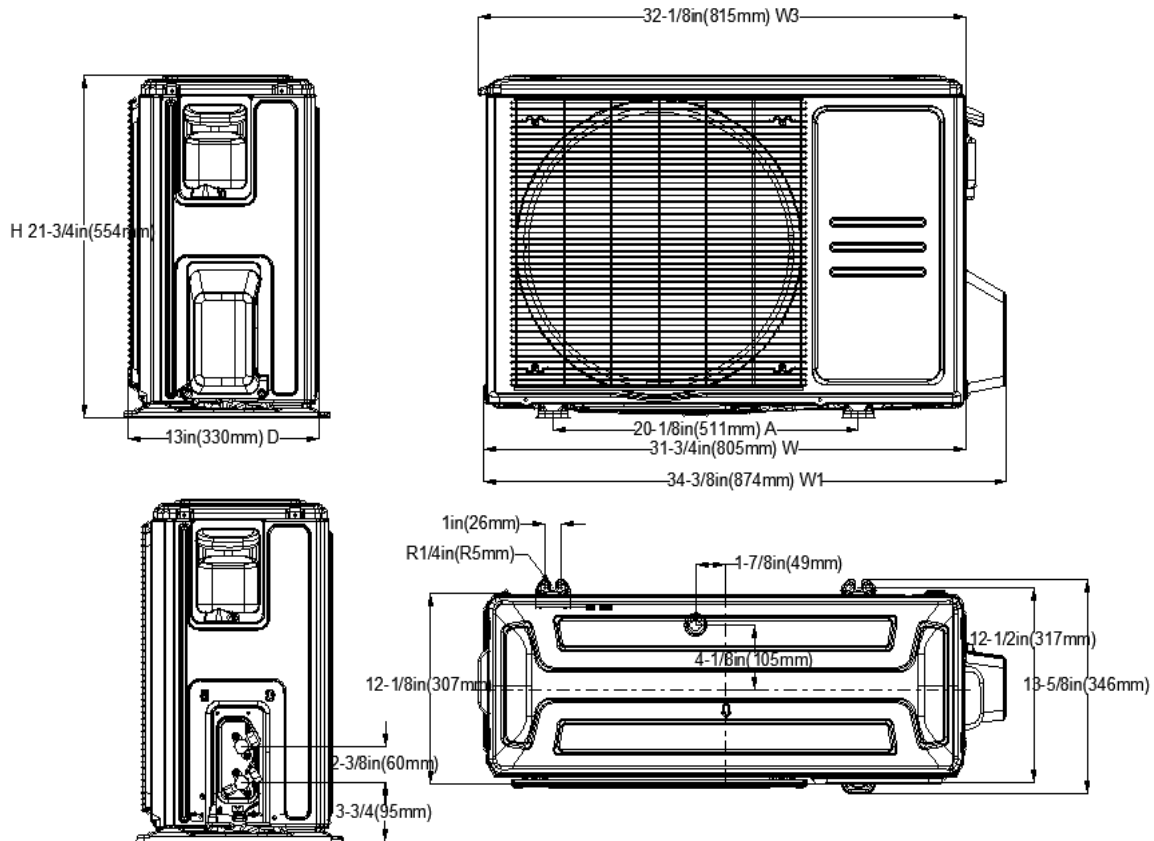
Installation Instructions



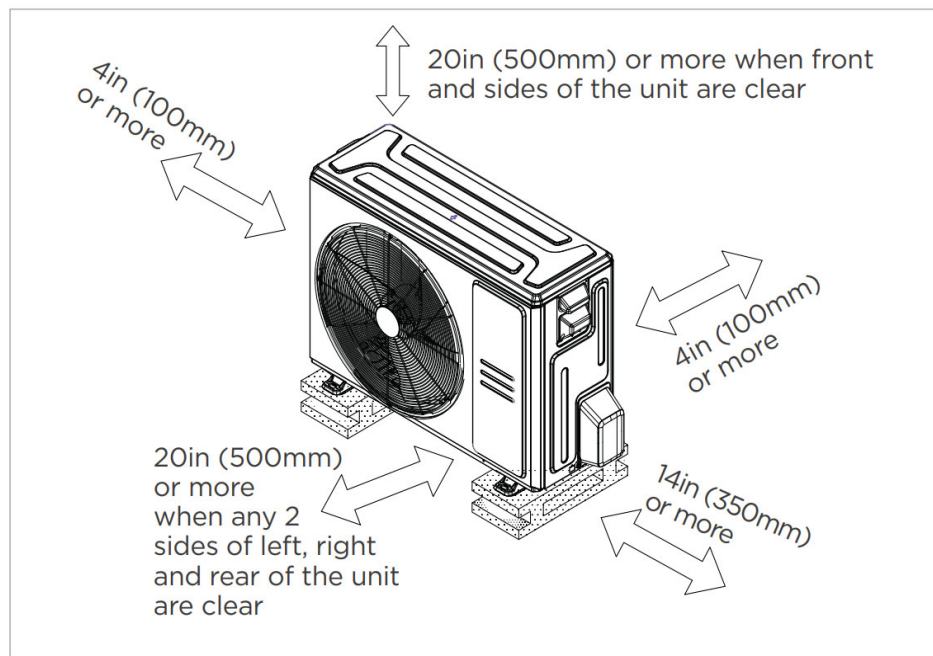
Distance from ceiling relative to height of indoor unit

MODEL	Length of A	Length of H	Length of B
9K/12K/18K	9.6in (245mm)	$>10.8\text{in}$ (275mm)	23.6in (600mm)
24K	8.03in (205mm)	9.06in (230mm)	35.4in (900mm)
36K	9.65in (245mm)	10.7in (271mm)	
48K	11.3in (287mm)	12.3in (313mm)	

Outdoor Unit Dimensions



Installation Instructions



Meets all spatial requirements shown in Installation Clearance Requirements above.

Features

- 360° Air Flow
- Remote on-off and alarm ports
- Refrigerant leakage detection sensor (Optional)
- Humidity sensor
- Built-in pump
- 1~100% fan speed setting
- WiFi capability: through WiFi dongle or wired controller with built-in WiFi
- OTA (by using WiFi dongle)
- 2-pin connector (HA/HB) for programmable wired controller
- 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.