



Submittal Data Sheet

Indoor Unit Model#: ACiQ-48CC-HH-MC
Outdoor Unit Model#: ACiQ-48ZPL-HP230C

4-Way Ceiling Cassette Heat Pump System

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

System Product Code: 810175551463
Indoor Unit Product Code: 810175551166
Outdoor Unit Product Code: 810175550992



INDOOR UNIT SPECIFICATIONS

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1236.1 / 1124.2 / 1018.3 / 800.5 / 688.7
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		NA / 52.0 / 49.5 / 41.5 / 38.00
Dimension (W×D×H)	inch	32.68 x 32.68 x 11.30
	mm	830.0 x 830.0 x 287.0
Package (W×D×H)	inch	35.83 x 35.83 x 12.99
	mm	910 x 910 x 330
Net/Gross Weight	lbs	64.59 / 76.06
	kg	29.3 / 34.5

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		TWIN-ROTARY
Compressor Model		EKPQ420D1UMUA
Refrigerant		R454B
Refrigerant Oil Charge (mL)		1460ml
Refrigerant Oil		3265
Outdoor Air Flow (Max) (CFM)		4237.9
Outdoor Noise Level (dBA)		62.5
Dimension (W×D×H)	inch	37.48 x 16.34 x 52.48
	mm	952.0 x 415.0 x 1333.0
Package (W×D×H)	inch	43.11 x 19.49 x 57.48
	mm	1095 x 495 x 1460
Net/Gross Weight	lbs	208.78 / 239.86
	kg	94.7 / 108.8

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	18	HSPF2-4	11.0
EER2	10.0	COP	3.09

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	48000
Min/Max Capacity	4900~52700
Moisture Removal (L/h)	6.13
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	53000
1. @ 47°F Min/Max Capacity	19000~57400
2. @ 17°F Rated	44000
3. @ 5°F Rated: Capacity / COP	47500 / 1.96
3. @ 5°F Max: Capacity	47500
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

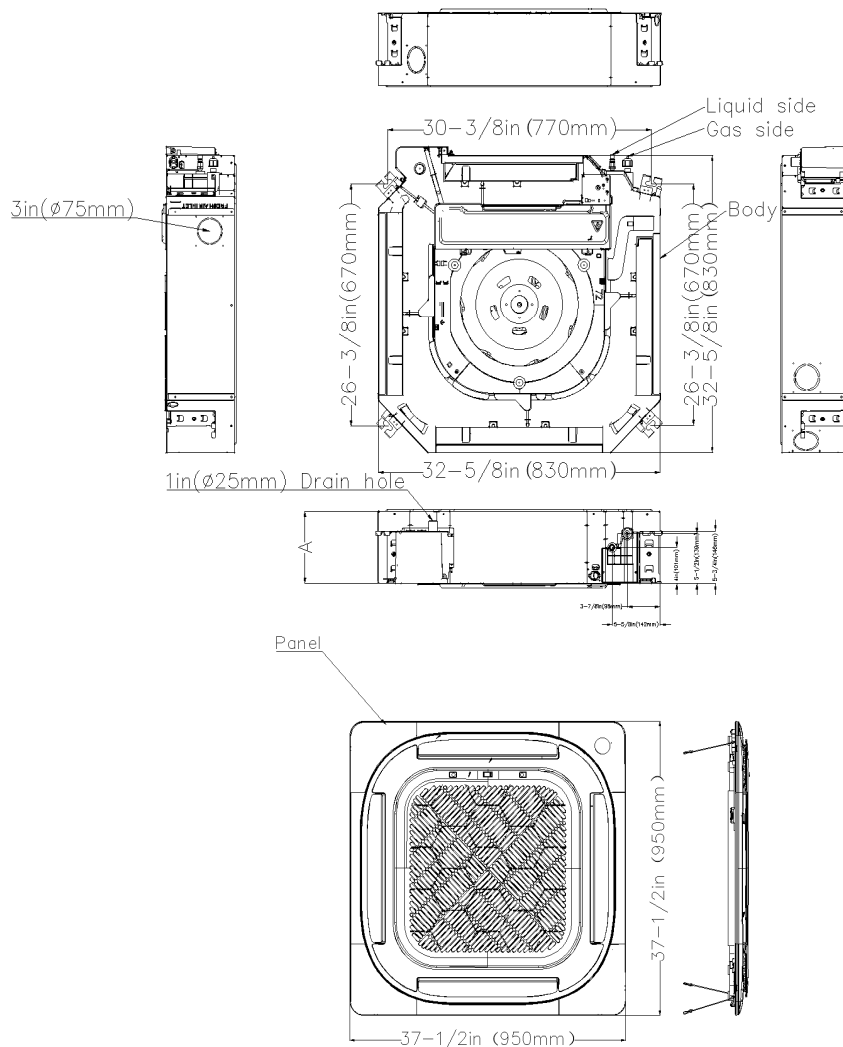
ELECTRICAL SPECIFICATIONS

Power Supply	208/230V, 60Hz, 1Ph
System MCA	44.00
Connection Wiring	14#x3
System MOP	45
Compressor RLA	27.0
Outdoor Fan Motor RLA	1.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	125
System Power Input @ Cooling (W)	4800 (710 ~ 5750)
System Power Input @ Heating (W)	5027 (1135 ~5660)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

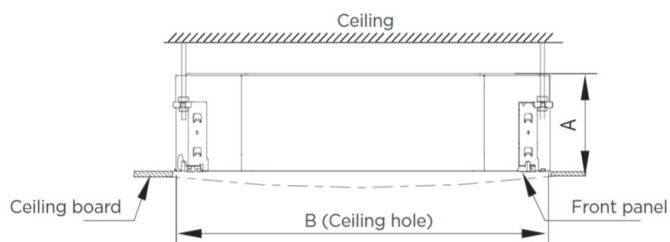
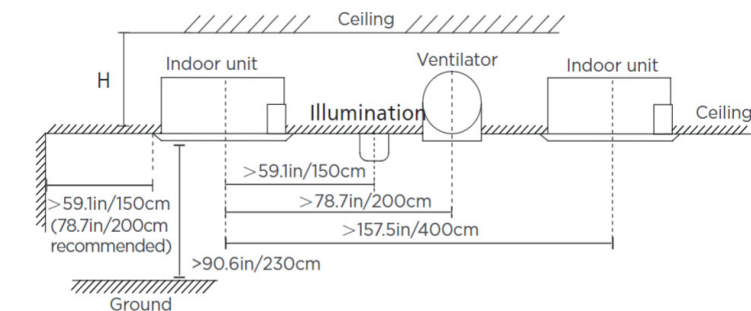
REFRIGERANT PIPING SPECIFICATIONS

Throttle type (Indoor)	N/A
Throttle type (Outdoor)	EXV+Throttle valve
Liquid Size	9.52mm (3/8in)
Gas Size	19mm (3/4in)
Max. Piping Length (ft/m)	246.00 (75)
Max. Height Difference (ft/m)	98.40 (30)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	126.99 (3.60)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.32 (30)
Connection Method	Flared

Indoor Unit Dimensions



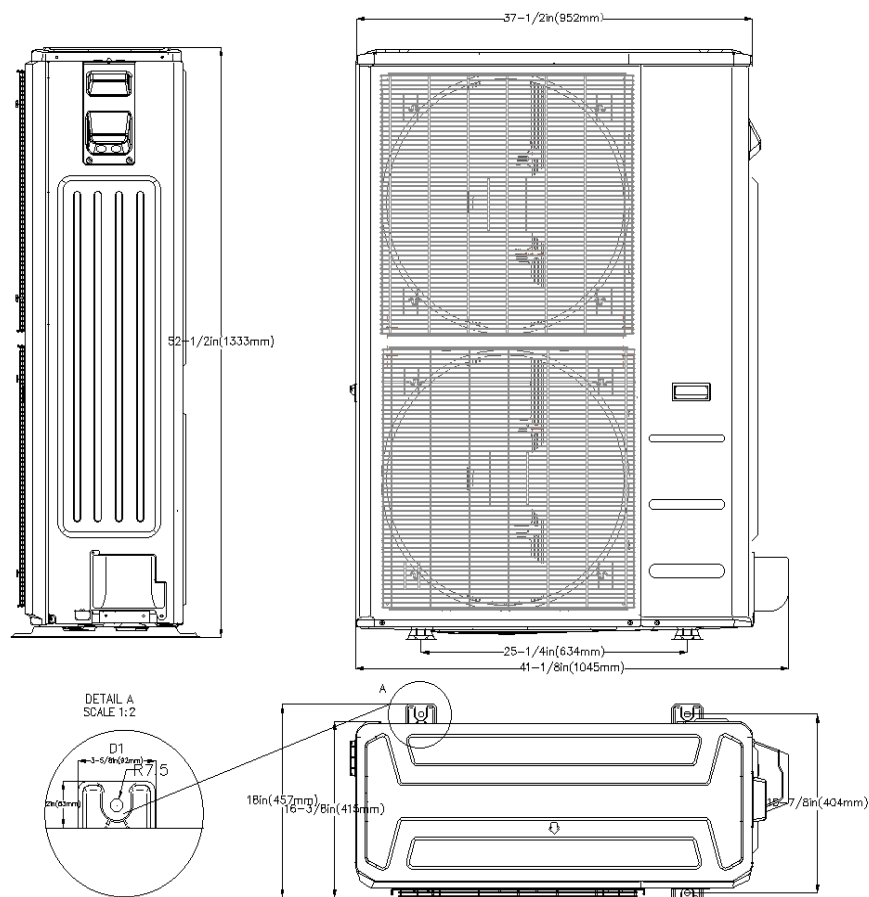
Installation Instructions



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 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)	

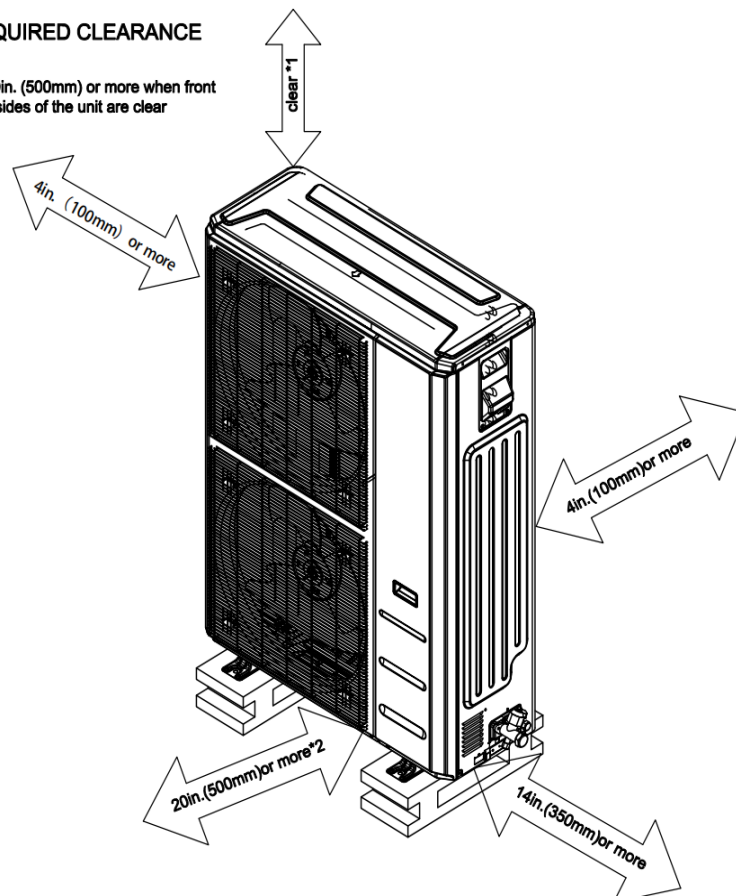
Outdoor Unit Dimensions



Installation Instructions

REQUIRED CLEARANCE

*1 20 in. (500 mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear

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.