



Submittal Data Sheet

Indoor Unit Model#: ACiQ-48FM-HH-MD
Outdoor Unit Model#: ACiQ-48ZPL-HP230C

48K Ceiling & Floor Heat Pump System

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

System Product Code: 810175551616
Indoor Unit Product Code: 810175551319
Outdoor Unit Product Code: 810175550992



INDOOR UNIT SPECIFICATIONS

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1353.8 / 1236.1 / 1083.0 / 800.5 / 665.1
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		54 / 53.0 / 48.5 / 39 / 35
Dimension (W×D×H)	inch	64.96 x 9.25 x 26.57
	mm	1650.0 × 235.0 × 675.0
Package (W×D×H)	inch	67.91 x 12.52 x 29.72
	mm	1725 × 318 × 755
Net/Gross Weight	lbs	89.07 / 105.16
	kg	40.4 / 47.7

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		TWIN-ROTARY
Compressor Model		EKPQ420D1UMUA
Refrigerant		R454B
Refrigerant Oil Charge (mL)		1460
Refrigerant Oil		VG75
Outdoor Air Flow (Max) (CFM)		4237.9
Outdoor Noise Level (dBA)		64.5
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	18.5	HSPF2-4	10.1
EER2	9.4	COP	2.86

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	48000
Min/Max Capacity	6700~53500
Moisture Removal (L/h)	6.32
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	52000
1. @ 47°F Min/Max Capacity	18800~58700
2. @ 17°F Rated	38500
3. @ 5°F Rated: Capacity / COP	47000 / 1.83
3. @ 5°F Max: Capacity	47000
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

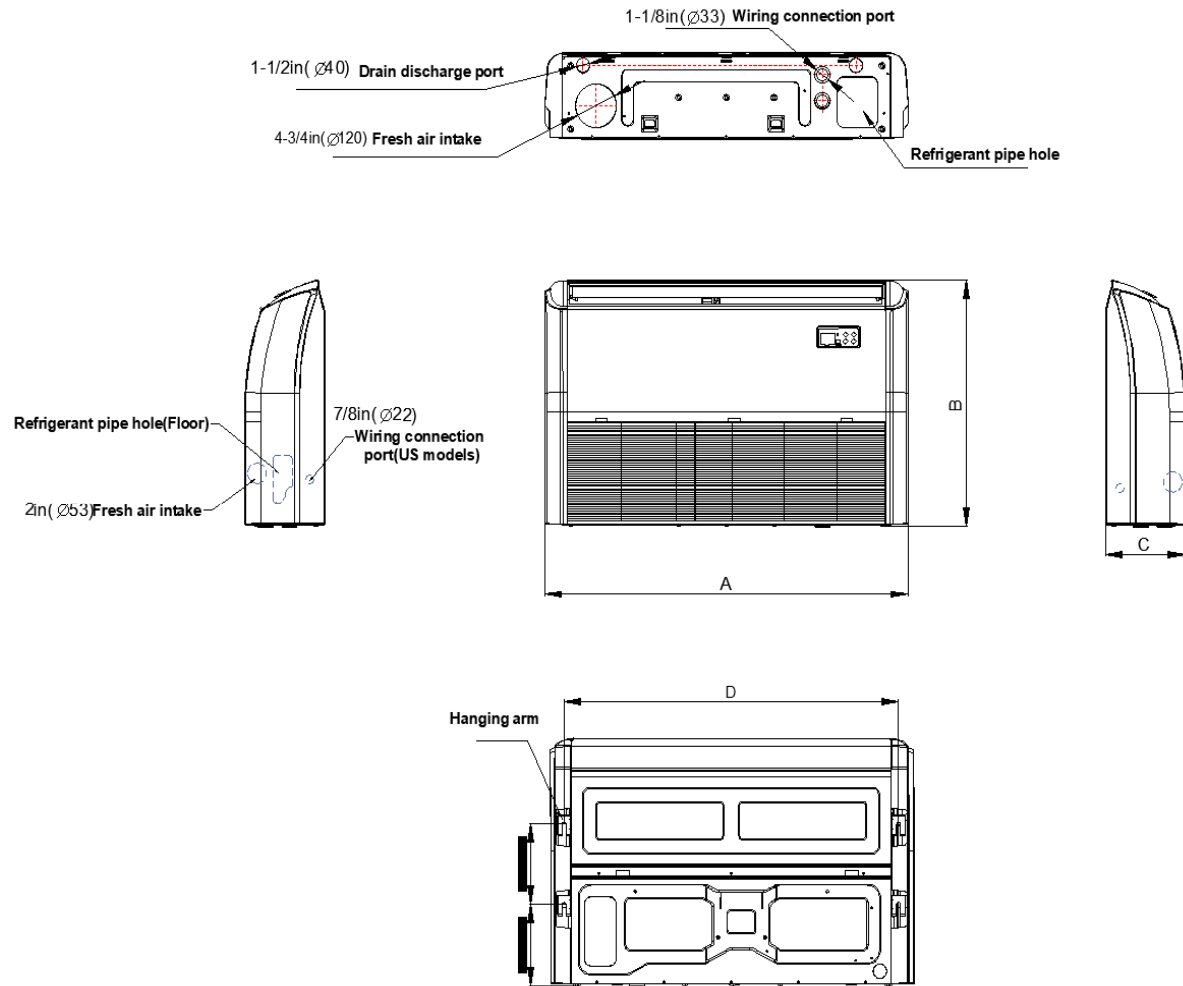
ELECTRICAL SPECIFICATIONS

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	90
System Power Input @ Cooling (W)	5106 (730 ~ 5760)
System Power Input @ Heating (W)	5330 (1145 ~ 5900)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

REFRIGERANT PIPING SPECIFICATIONS

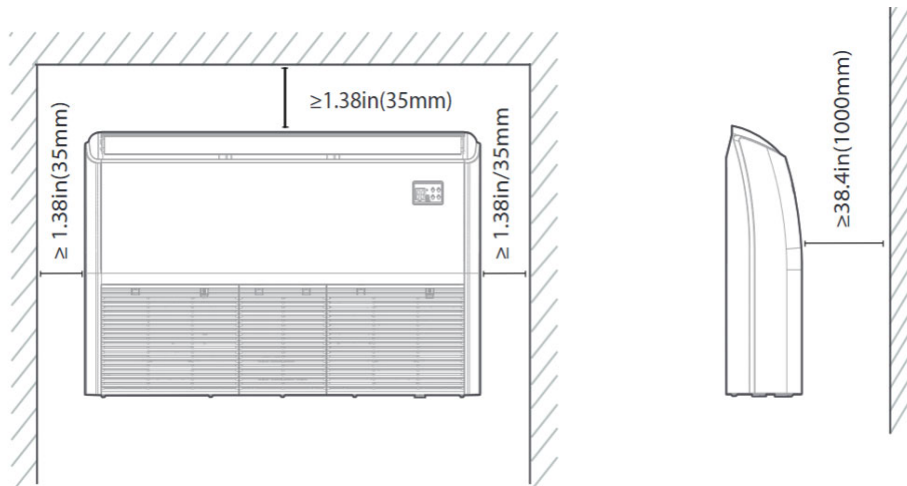
Throttle type (Indoor)	N/A
Throttle type (Outdoor)	EXV+Throttle valve
Liquid Size	9.52mm (3/8in)
Gas Size	19mm (3/4in)
Max. Piping Length (ft/m)	246.00 (75)
Max. Height Difference (ft/m)	98.40 (30)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	126.99 (3.60)
Additional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

Indoor Unit Dimensions

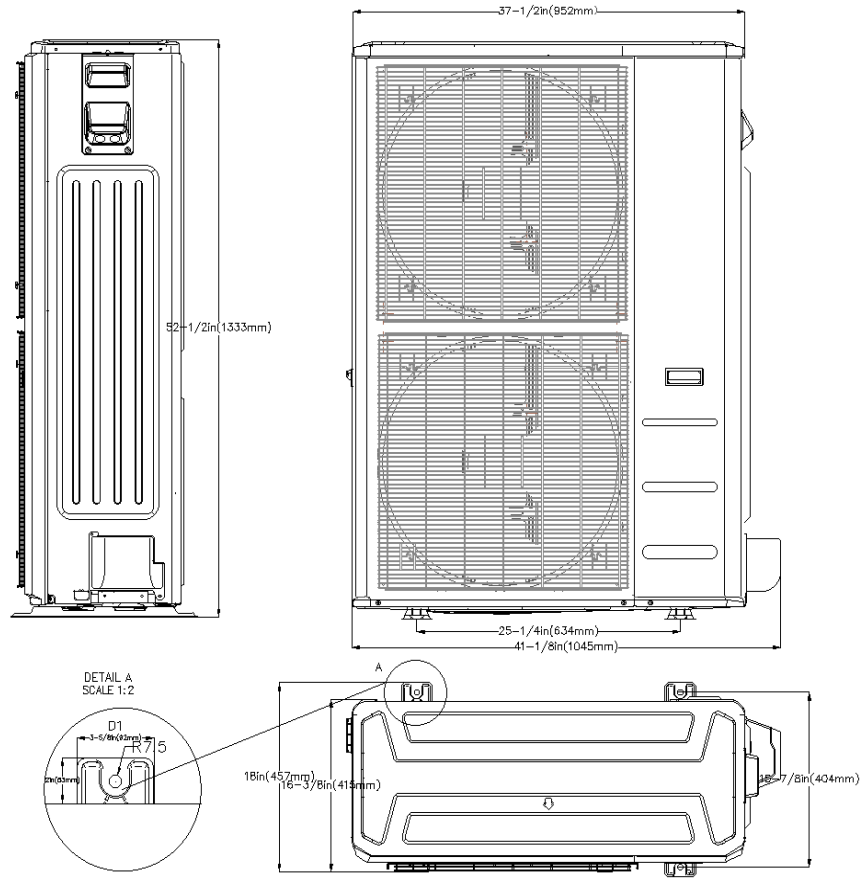


Model	A	B	C	D
18K/24K	42in(1068mm)	26-1/2in(675mm)	9-1/4in(235mm)	38-3/4in(983mm)
36K/48K/60K	65in(1650mm)	26-1/2in(675mm)	9-1/4in(235mm)	61-5/8in(1565mm)

Indoor Unit Installation Instructions



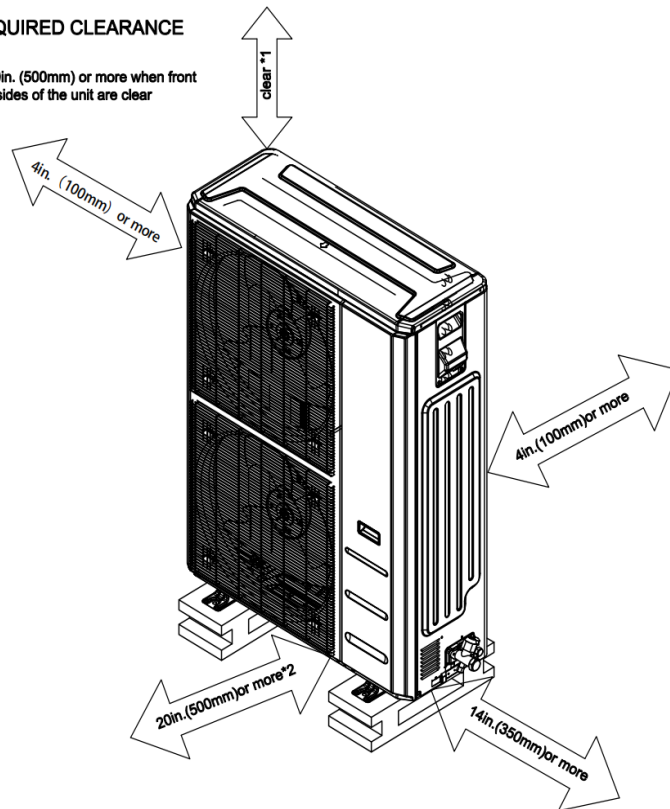
Outdoor Unit Dimensions



Indoor Unit Installation Instructions

REQUIRED CLEARANCE

*1 20in. (500mm) 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

- 2 Style Installation
- 3D Airflow
- Refrigerant leakage detection sensor
- Humidity sensor
- 88" display tube
- 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.