



Submittal Data Sheet

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

48K Concealed Duct (High Static Pressure) Heat Pump System

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

System Product Code: 810175551531
Indoor Unit Product Code: 810175551241
Outdoor Unit Product Code: 810175550992



INDOOR UNIT SPECIFICATIONS

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1648.1 / 1471.5 / 1294.9 / 1059.5 / NA
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		NA / 51 / 46 / 42 / 40
Indoor static pressure range (in.w.g.)		0-0.8
Dimension (WxDxH)	inch	47.24 x 29.53 x 11.81
	mm	1200.0 x 750.0 x 300.0
Package (WxDxH)	inch	56.10 x 33.86 x 14.13
	mm	1425 x 860 x 359
Net/Gross Weight	lbs	111.33 / 124.78
	kg	50.5 / 56.6

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		TWIN-ROTARY
Compressor Model		EKPQ420D1UMUA
Refrigerant		R454B
Refrigerant Oil Charge (mL)		1460 ml
Refrigerant Oil		VG75
Outdoor Air Flow (Max) (CFM)		4237.9
Outdoor Noise Level (dBA)		65.0
Dimension (WxDxH)	inch	37.48 x 16.34 x 52.48
	mm	952.0 x 415.0 x 1333.0
Package (WxDxH)	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	16.7	HSPF2-4	10.8
EER2	10.4	COP	3.60

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	48000
Min/Max Capacity	11000~56500
Moisture Removal (L/h)	4.22
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	11200~60000
2. @ 17°F Rated	45000
3. @ 5°F Rated: Capacity / COP	47500 / 2.00
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

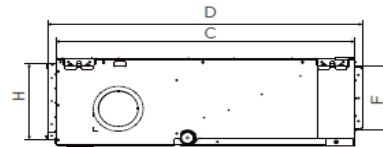
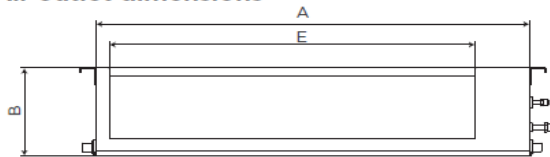
Power Supply	208/230V, 60Hz, 1Ph
System MCA	44.00
Connection Wiring	14#x3
System MOP	45
Compressor RLA	27.0
Outdoor Fan Motor RLA	1.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	4.0
Indoor Fan Motor W	560
System Power Input @ Cooling (W)	4610 (930 ~ 6050)
System Power Input @ Heating (W)	4230 (770 ~5380)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

REFRIGERANT PIPING SPECIFICATIONS

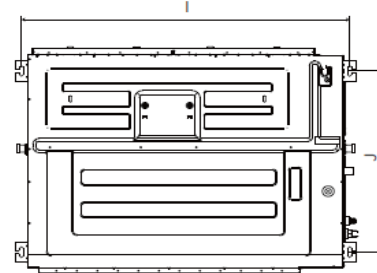
Throttle type (Indoor)	N/A
Throttle type (Outdoor)	EXV+Throttle valve
Liquid Size	9.52mm (3/8in)
Gas Size	19mm (3/4in)
Max. Piping Length (ft/m)	246.00 (75)
Max. Height Difference (ft/m)	98.40 (30)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	126.99 (3.60)
Additional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

Indoor Unit Dimensions

Air outlet dimensions



Air inlet dimensions



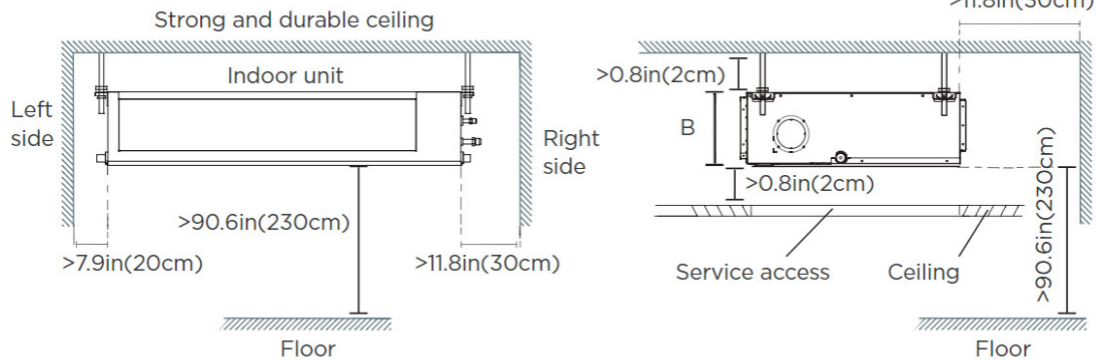
MODEL	OUTLINE DEMENSION				AIR OUTLET OPENING SIZE		AIR RETURN OPENING SIZE		SIZE OF MOUNTED LUG	
	A	B	C	D	E	F	G	H	I	J
9K/12K	27.6/700	9.6/245	29.5/750	31.3/795	20.7/527	7.0/178	23.3/592	8.3/212	29.1/740	25.2/640
18K/24K	39.4/1000	9.6/245	29.5/750	31.3/795	32.6/827	7.0/178	35.1/892	8.3/212	40.9/1040	25.2/640
36K/48K	47.2/1200	11.8/300	29.5/750	31.3/795	40.4/1027	9.2/233	43.0/1092	10.5/267	48.8/1240	25.2/640
55K/60K	55.1/1400	14.9/380	31.5/800	33.3/845	48.1/1223	12.6/320	50.1/1272	13.0/330	56.7/1440	26.3/668

Installation Instructions

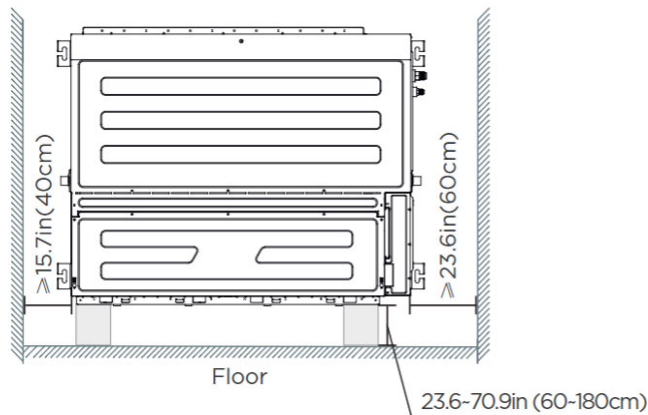
Installation place

The distance between the mounted indoor unit should meet the specifications illustrated in the following diagram.

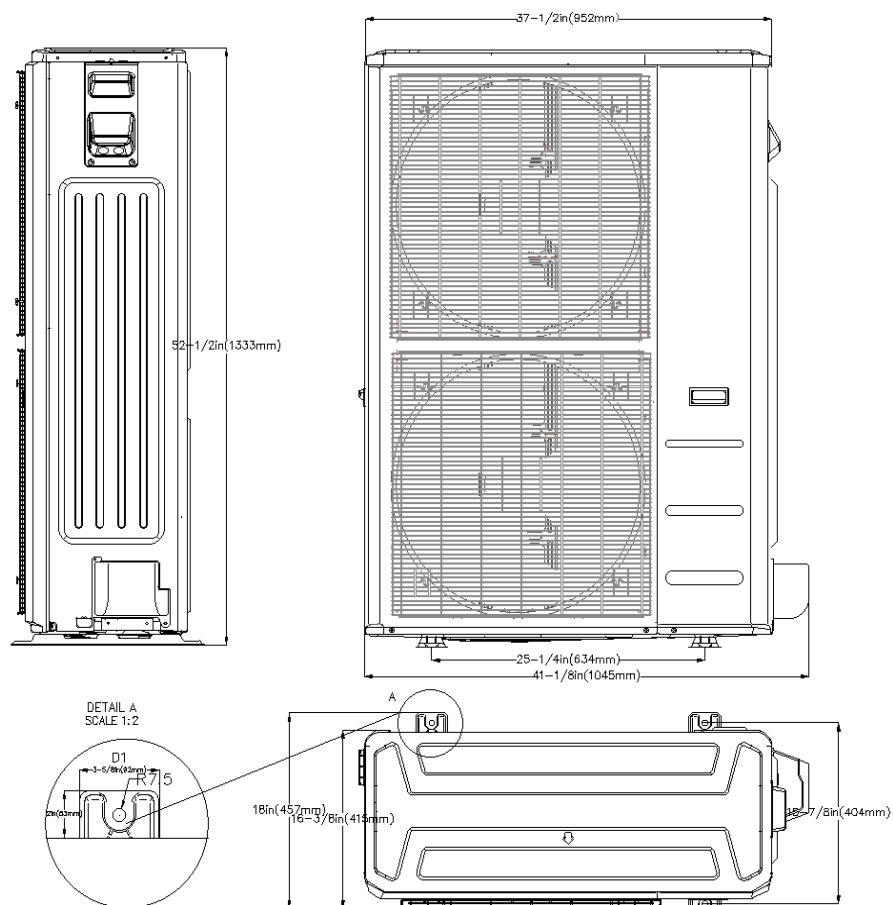
1) Ceiling-mounted



2) Wall-mounted



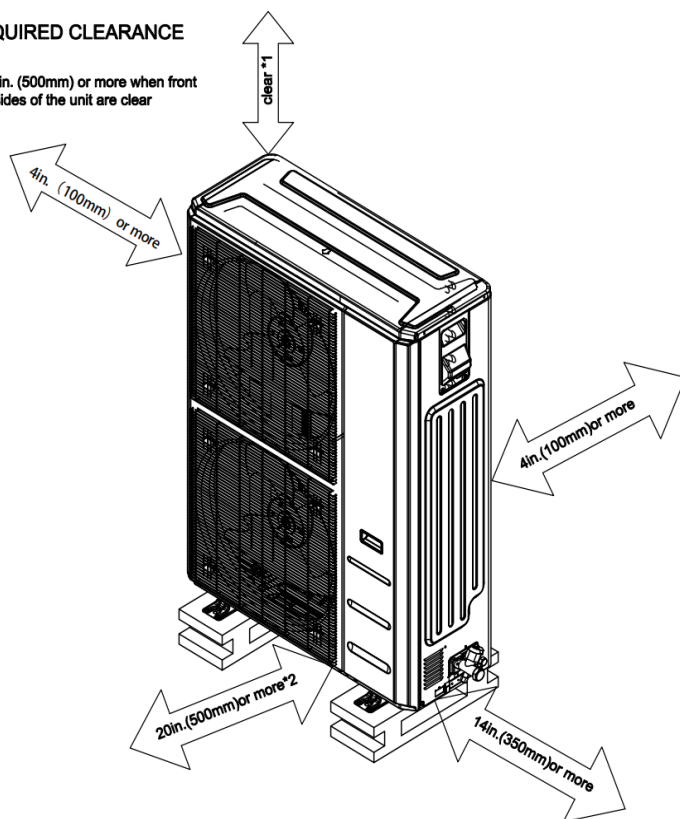
Outdoor Unit Dimensions



Installation Instructions

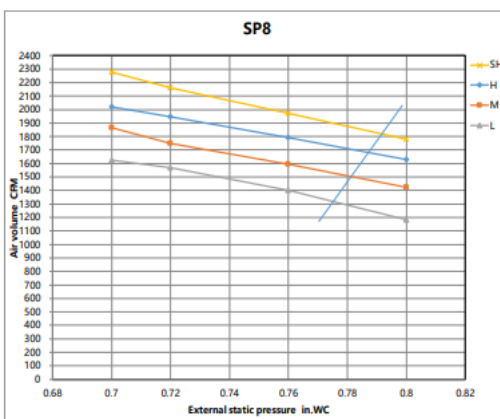
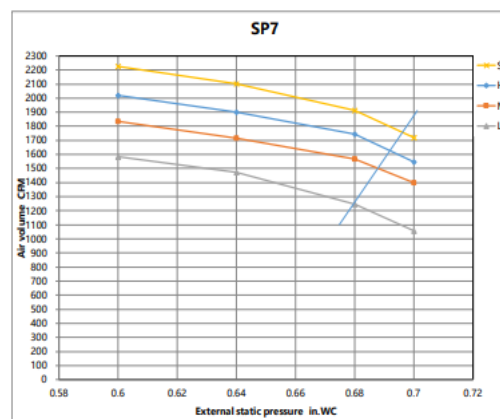
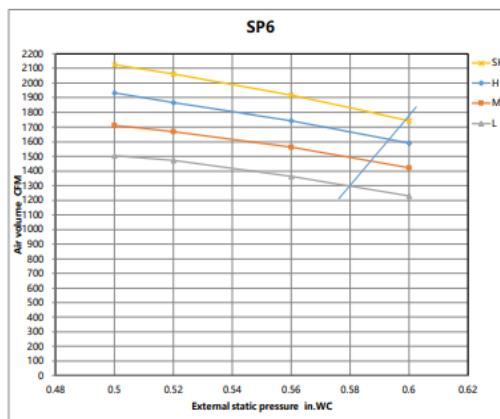
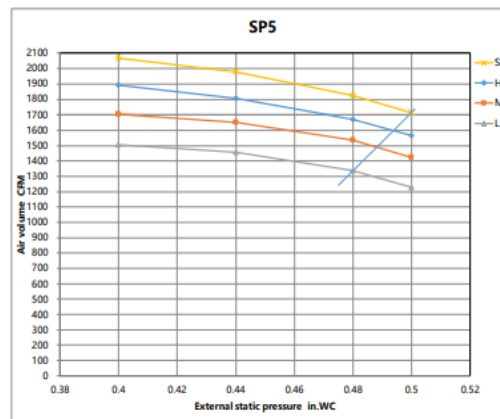
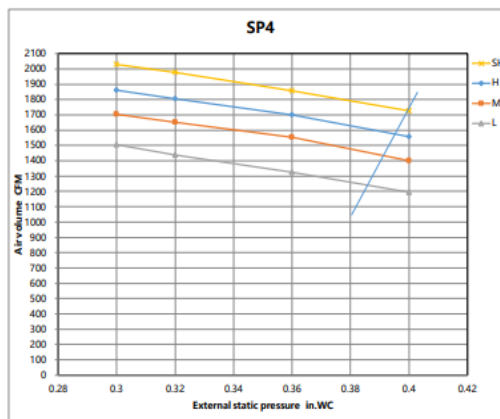
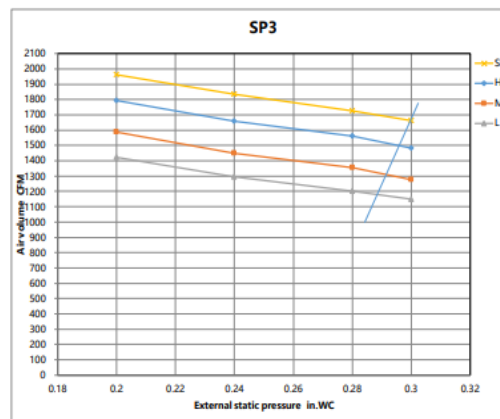
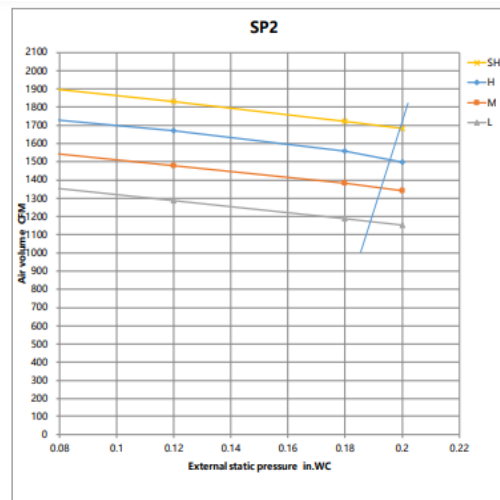
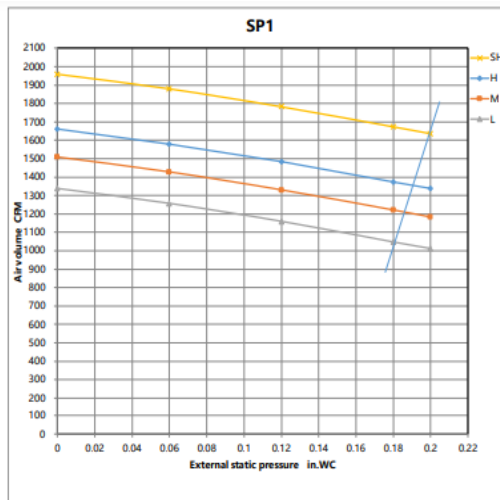
REQUIRED CLEARANCE

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

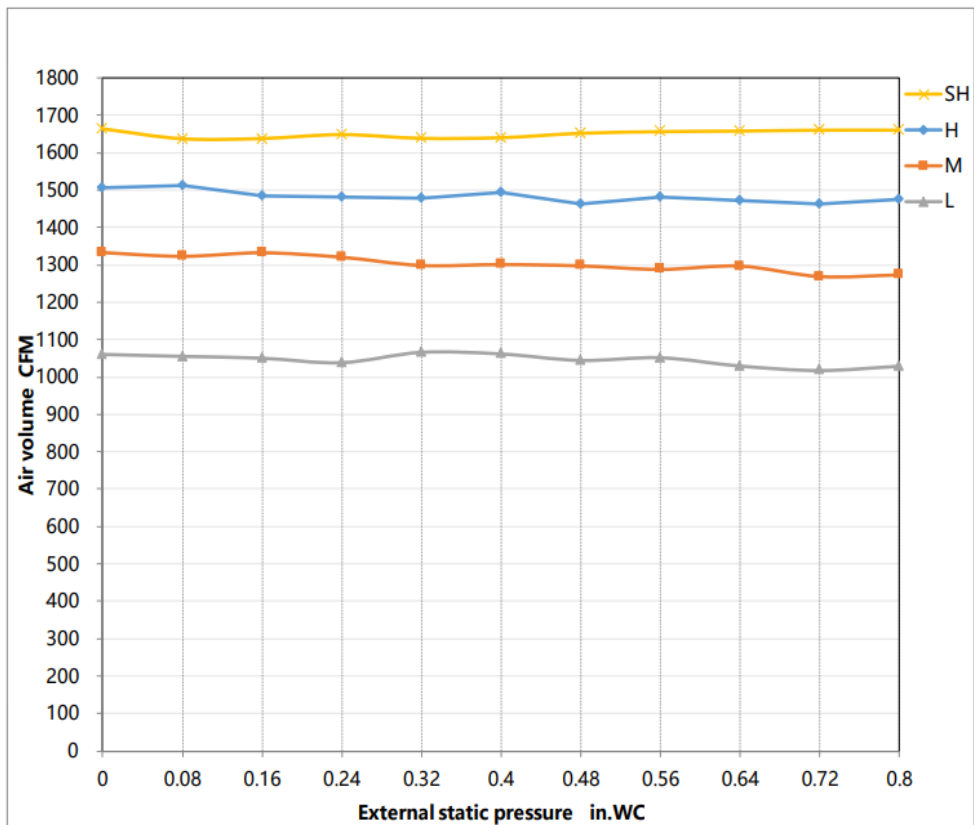


*2 When any 2 sides of left, right and rear of the unit are clear

Indoor Unit Fan Performance



Constant air volume



Features

- Compatible with both horizontal and vertical installation
- Static pressure up to 0.8 in.w.g (for all models)
- Static pressure setting stages: 8
- Refrigerant leakage detection sensor
- Constant airflow
- Built-in pump
- i-clean
- Fan speed stages: 1~100%
- WiFi capability: through wired controller with built-in WiFi
- OTA (by using wired controller 120N (X6W))
- 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.