



Submittal Data Sheet

Indoor Unit Model#: ACiQ-24CD-HH-MC
Outdoor Unit Model#: ACiQ-24ZPL-HP230C

24K Concealed Duct (High Static Pressure) Heat Pump System

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

System Product Code: 810175551517
Indoor Unit Product Code: 810175551227
Outdoor Unit Product Code: 810175550978



EFFICIENCY RATINGS

Cooling		Heating	
SEER2	19	HSPF2-4	11.7
EER2	12.0	COP	3.81

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	24000
Min/Max Capacity	5000~28000
Moisture Removal (L/h)	2.03
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	26000
1. @ 47°F Min/Max Capacity	7300~31400
2. @ 17°F Rated	21600
3. @ 5°F Rated: Capacity / COP	24000 / 2.18
3. @ 5°F Max: Capacity	24000
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)		853.5 / 706.3 / 618.0 / 500.3 / NA
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		NA / 40.0 / 37.0 / 35 / 29.5
Indoor static pressure range (in.w.g.)		0-0.8
Dimension (W×D×H)	inch	39.37 x 29.53 x 9.65
	mm	1000.0 x 750.0 x 245.0
Package (W×D×H)	inch	48.23 x 33.86 x 11.97
	mm	1225 x 860 x 304
Net/Gross Weight	lbs	80.47 / 91.93
	kg	36.5 / 41.7

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		ROTARY
Compressor Model		KTM240D46UKT2
Refrigerant		R454B
Refrigerant Oil Charge (mL)		620
Refrigerant Oil		4.15 / 9.30
Outdoor Air Flow (Max) (CFM)		2236.7
Outdoor Noise Level (dBA)		61.0
Dimension (W×D×H)	inch	37.24 x 16.14 x 31.89
	mm	946.0 x 410.0 x 810.0
Package (W×D×H)	inch	42.91 x 19.68 x 34.84
	mm	1090 x 500 x 885
Net/Gross Weight	lbs	130.29 / 141.31
	kg	59.1 / 64.1

ELECTRICAL SPECIFICATIONS

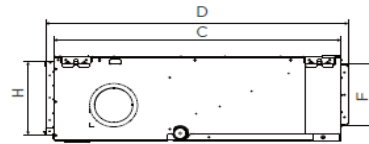
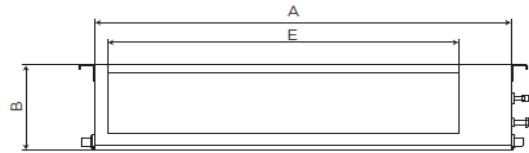
Power Supply	208/230V, 60Hz, 1Ph
System MCA	24.90
Connection Wiring	14#x4
System MOP	25
Compressor RLA	15.0
Outdoor Fan Motor RLA	1.3
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	2.2
Indoor Fan Motor W	165
System Power Input @ Cooling (W)	2000 (870 ~ 2410)
System Power Input @ Heating (W)	2000 (440 ~2480)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

REFRIGERANT PIPING SPECIFICATIONS

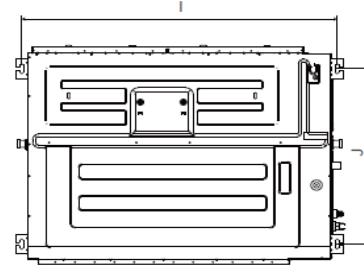
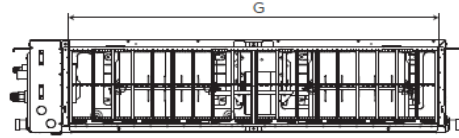
Throttle type (Indoor)	N/A
Throttle type (Outdoor)	EXV+Throttle valve
Liquid Size	9.52mm (3/8in)
Gas Size	15.9mm (5/8in)
Max. Piping Length (ft/m)	164.00 (50)
Max. Height Difference (ft/m)	82.00 (25)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	63.49 (1.80)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.32 (30)
Connection Method	Flared

Indoor Unit Dimensions

Air outlet dimensions



Air inlet dimensions



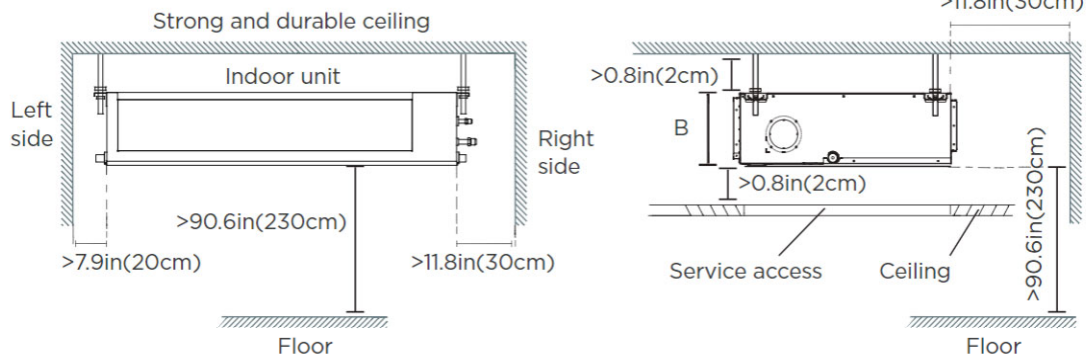
MODEL	OUTLINE DIMENSION				AIR OUTLET OPENING SIZE		AIR RETURN OPENING SIZE		SIZE OF MOUNTED LUG	
	A	B	C	D	E	F	G	H	I	J
9K/12K	27.6/700	9.6/245	29.5/750	31.3/795	20.7/527	7.0/178	23.3/592	8.3/212	29.1/740	25.2/640
18K/24K	39.4/1000	9.6/245	29.5/750	31.3/795	32.6/827	7.0/178	35.1/892	8.3/212	40.9/1040	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

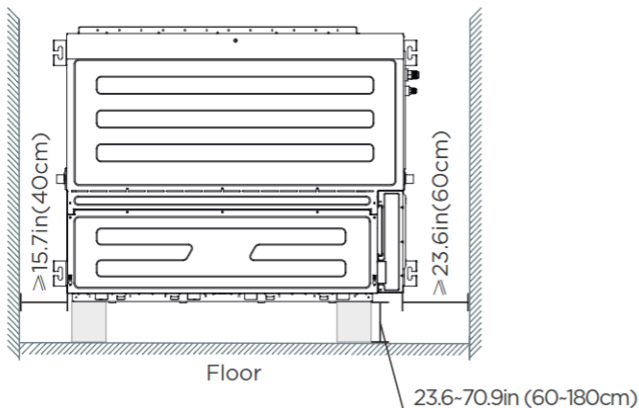
Installation place

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

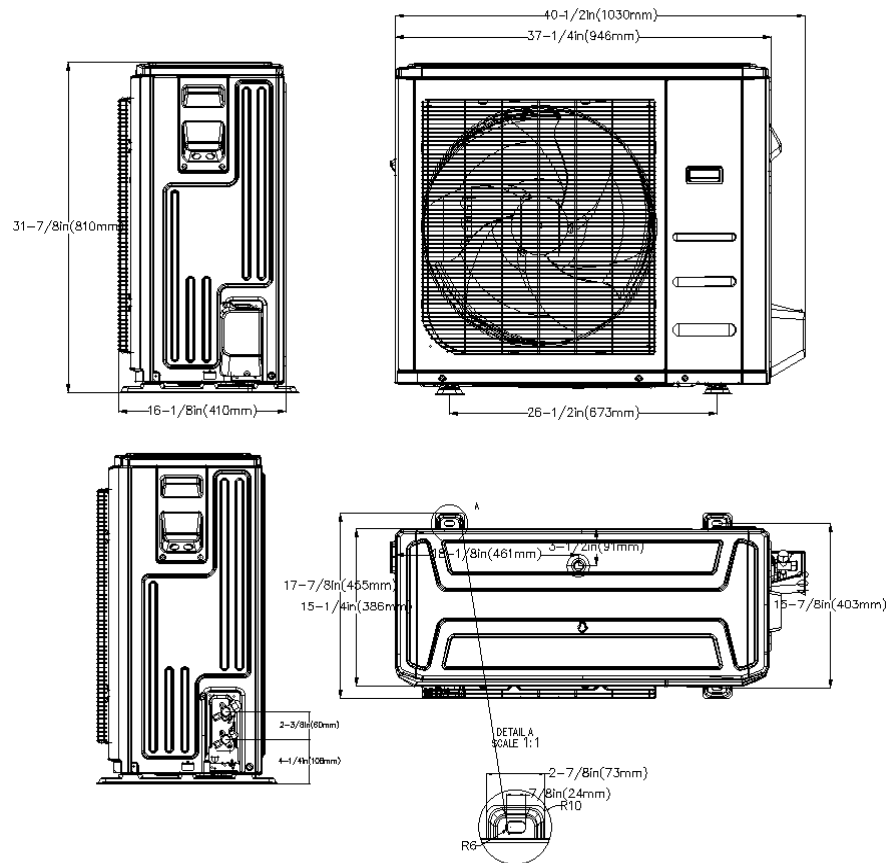
1) Ceiling-mounted



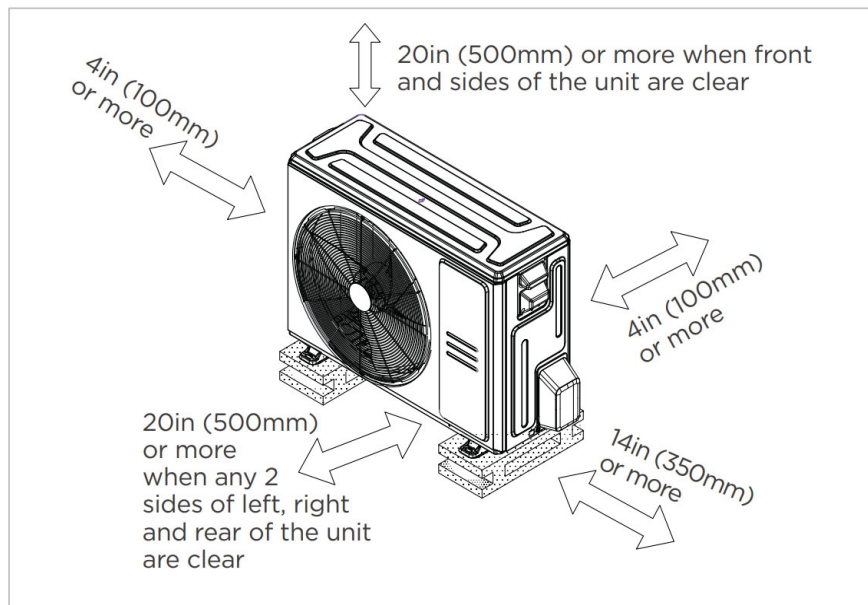
2) Wall-mounted



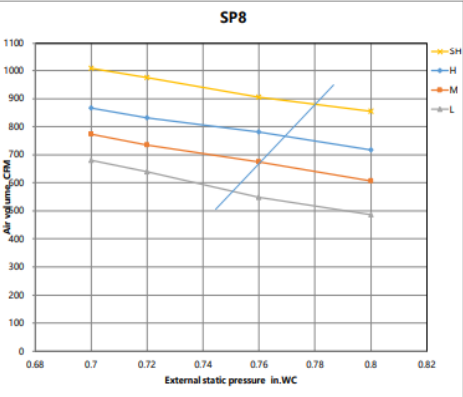
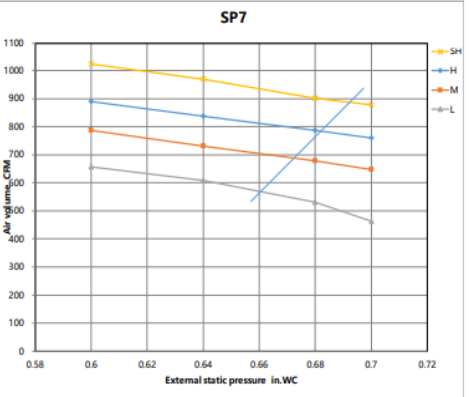
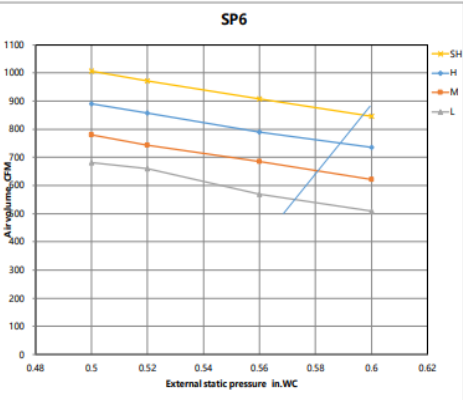
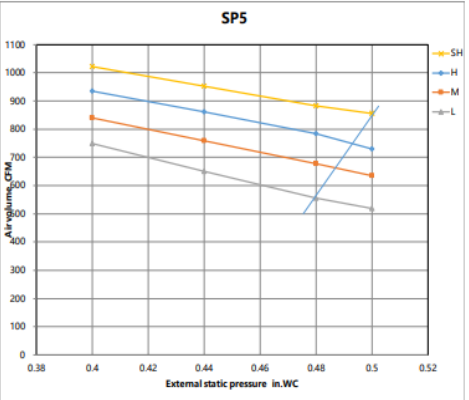
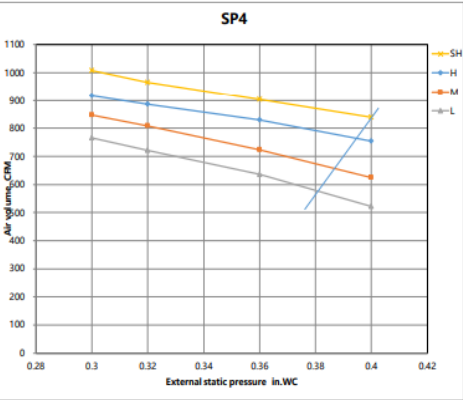
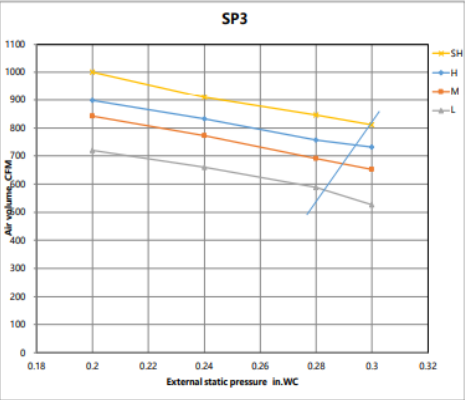
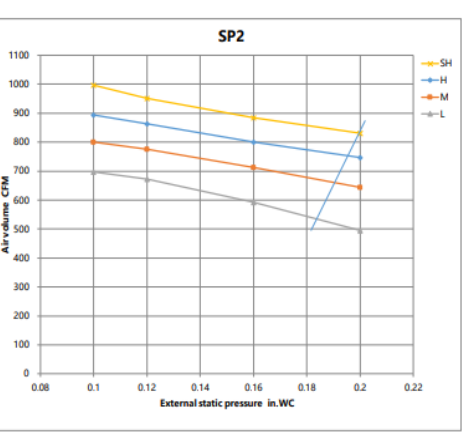
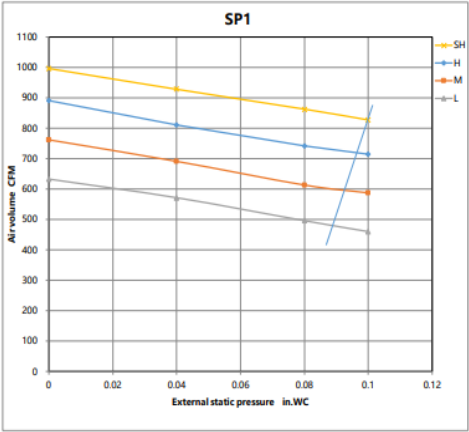
Outdoor Unit Dimensions



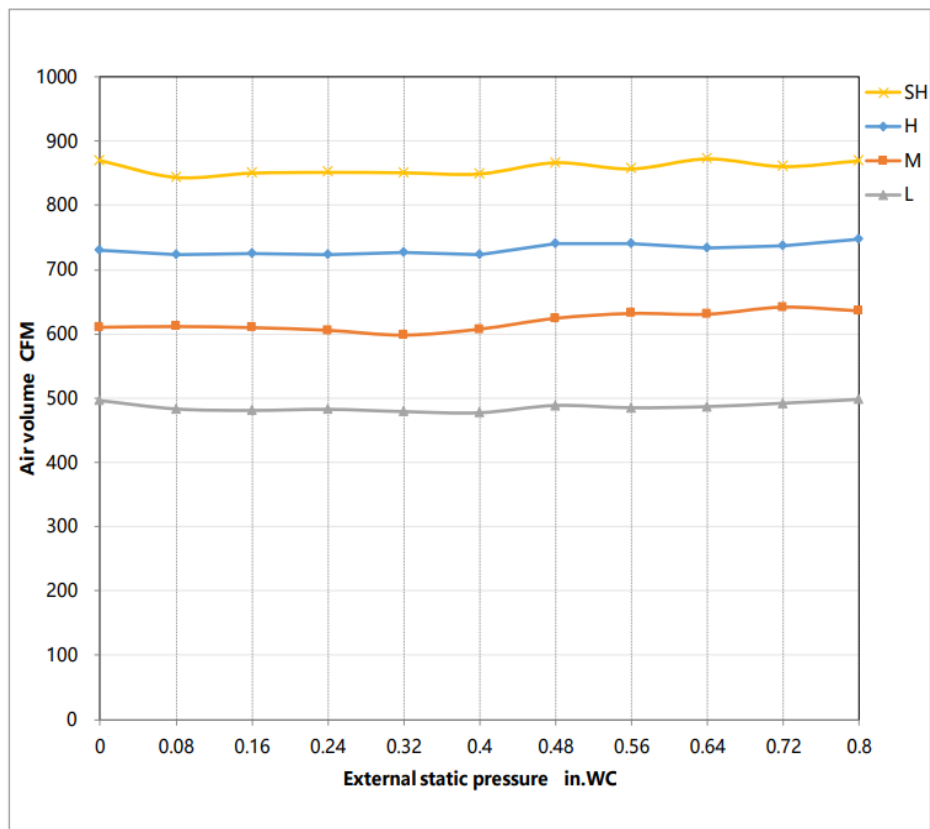
Installation Instructions



☒ Meets all spatial requirements shown in Installation Clearance Requirements above.



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.