



# Submittal Data Sheet

Indoor Unit Model#: ACiQ-18CD-HH-MC  
Outdoor Unit Model#: ACiQ-18ZPL-HP230C

## 18K Concealed Duct (High Static Pressure) Heat Pump System

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

System Product Code: 81017551500  
Indoor Unit Product Code: 81017551210  
Outdoor Unit Product Code: 81017550961



### EFFICIENCY RATINGS

Cooling		Heating	
SEER2	18.4	HSPF2-4	11.1
EER2	12	COP	3.60

### COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	17500
Min/Max Capacity	4000~20600
Moisture Removal (L/h)	1.39
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	19500
1. @ 47°F Min/Max Capacity	5400~23000
2. @ 17°F Rated	15000
3. @ 5°F Rated: Capacity / COP	18000 / 2.10
3. @ 5°F Max: Capacity	18000
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)		706.3 / 618.0 / 529.7 / 441.4 / NA
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		NA / 36 / 34.0 / 32.0 / 28.0
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	79.81 / 91.27
	kg	36.2 / 41.4

### 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)		1765.8
Outdoor Noise Level (dBA)		57.5
Dimension (W×D×H)	inch	35.04 x 13.46 x 26.50
	mm	890.0 x 342.0 x 673.0
Package (W×D×H)	inch	39.17 x 15.67 x 29.13
	mm	995 x 398 x 740
Net/Gross Weight	lbs	99.87 / 107.80
	kg	45.3 / 48.9

### ELECTRICAL SPECIFICATIONS

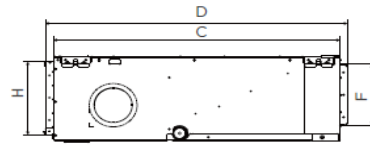
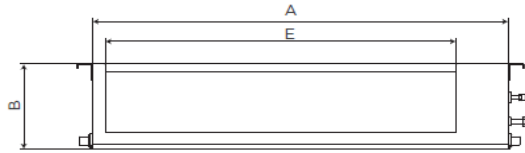
Power Supply	208/230V, 60Hz, 1Ph
System MCA	19.00
Connection Wiring	14#x4
System MOP	20
Compressor RLA	11.7
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	1.8
Indoor Fan Motor W	165
System Power Input @ Cooling (W)	1455 (530 ~ 1790)
System Power Input @ Heating (W)	1590 (340 ~ 1750)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

### REFRIGERANT PIPING SPECIFICATIONS

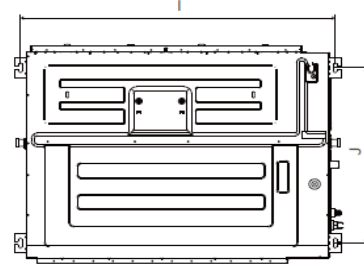
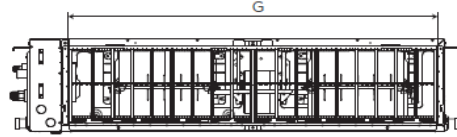
Throttle type (Indoor)	N/A
Throttle type (Outdoor)	EXV+Throttle valve
Liquid Size	6.35mm (1/4in)
Gas Size	12.7mm (1/2in)
Max. Piping Length (ft/m)	98.40 (30)
Max. Height Difference (ft/m)	65.60 (20)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	55.38 (1.57)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.16 (15)
Connection Method	Flared

## Indoor Unit Dimensions

### Air outlet dimensions



### Air inlet dimensions



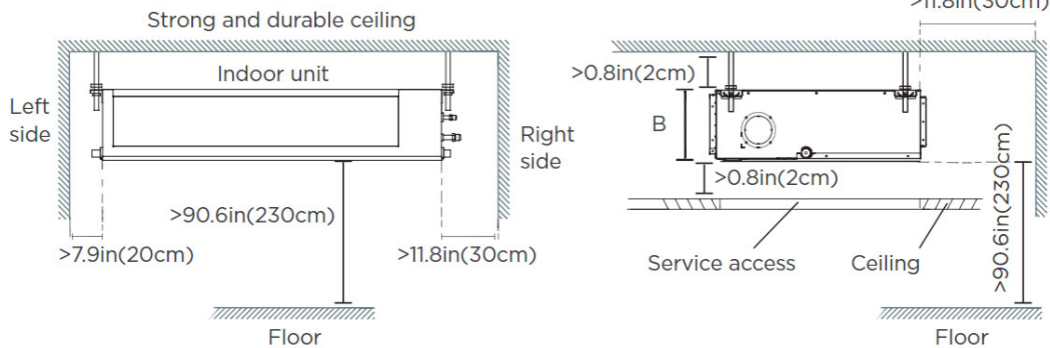
MODEL	OUTLINE DIMENSION				AIR OUTLET OPENING SIZE		AIR RETURN OPENING SIZE		SIZE OF MOUNTED LUG	
	A	B	C	D	E	F	G	H	I	J
9K/12K	27.6/700	9.6/245	29.5/750	31.3/795	20.7/527	7.0/178	23.3/592	8.3/212	29.1/740	25.2/640
18K/24K	39.4/1000	9.6/245	29.5/750	31.3/795	32.6/827	7.0/178	35.1/892	8.3/212	40.9/1040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

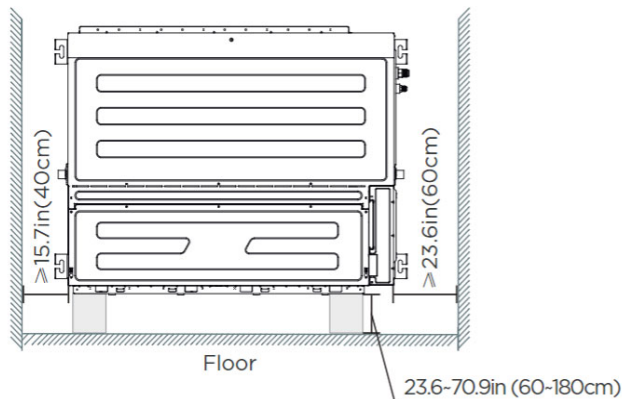
### Installation place

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

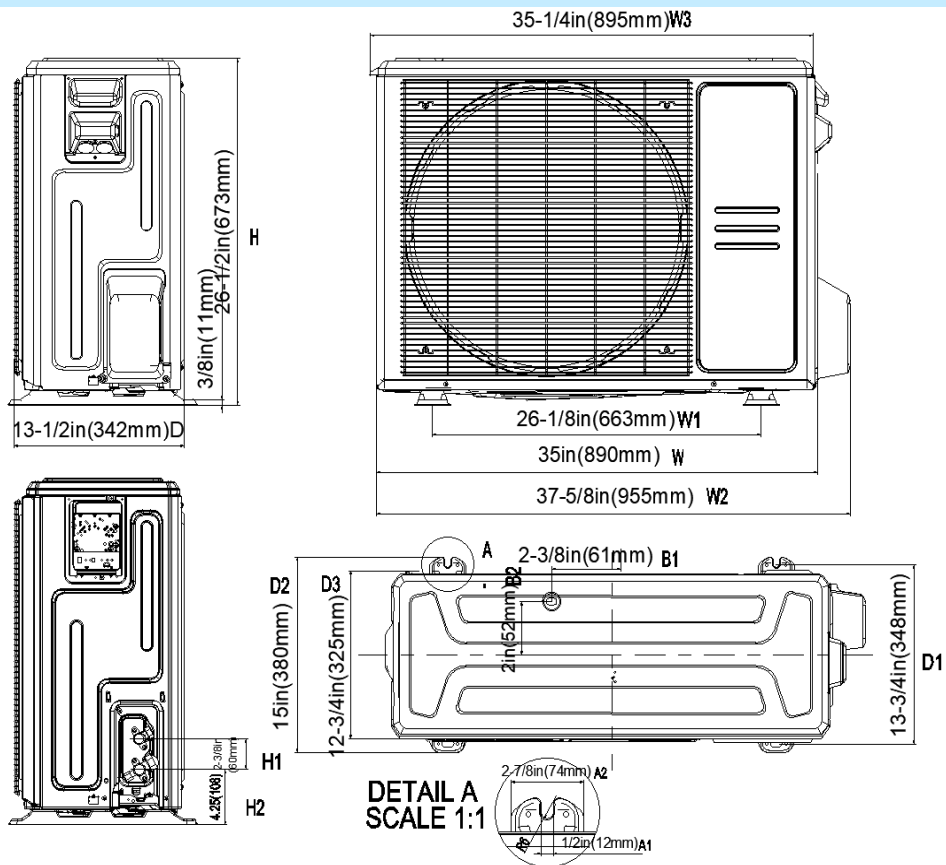
#### 1) Ceiling-mounted



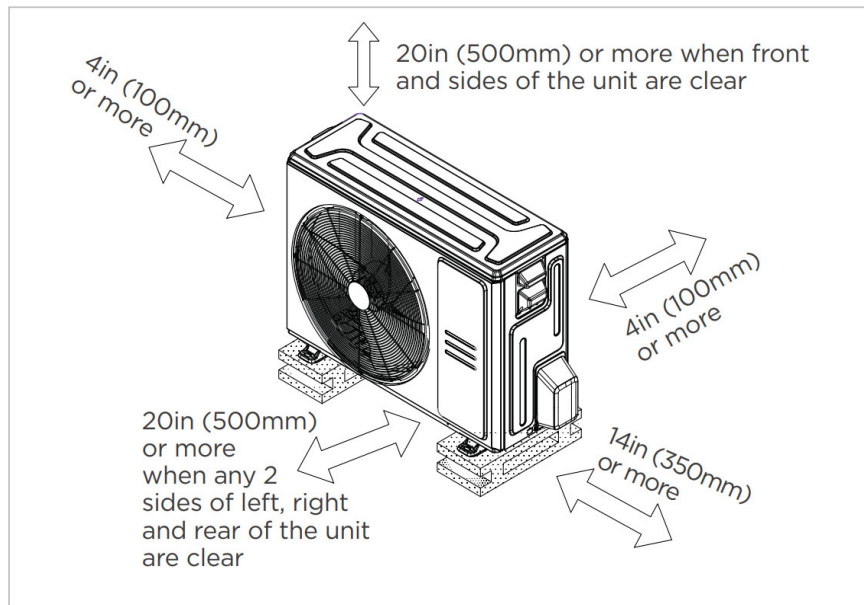
#### 2) Wall-mounted



## Outdoor Unit Dimensions

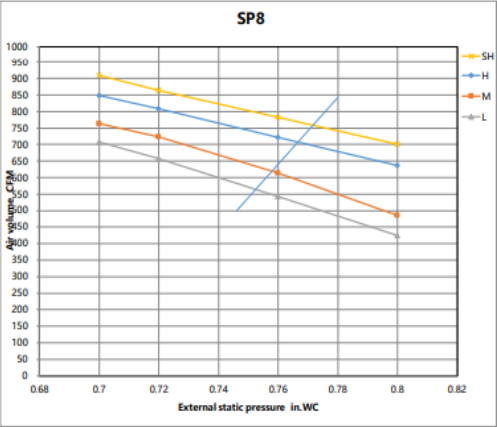
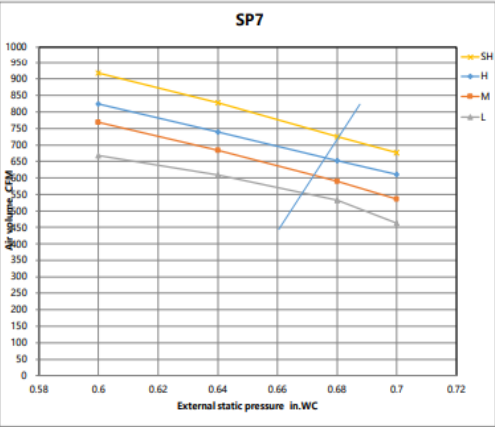
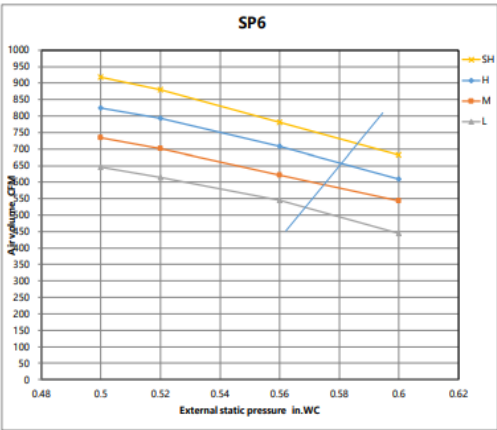
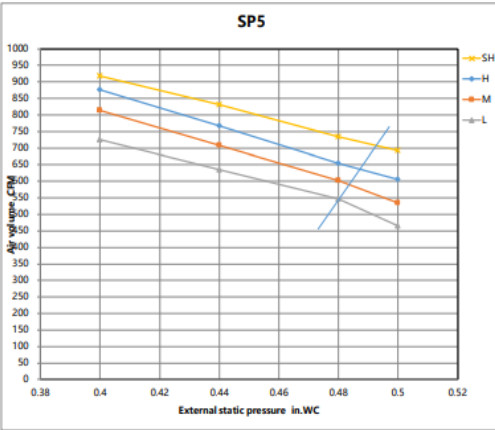
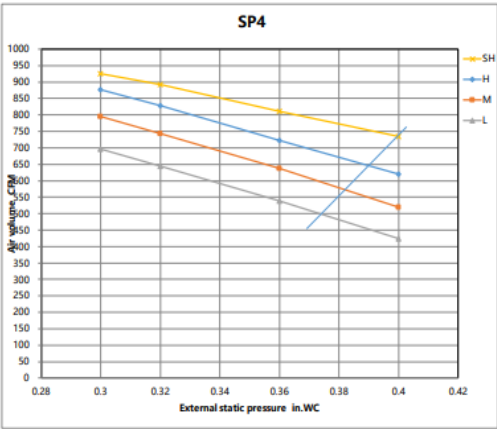
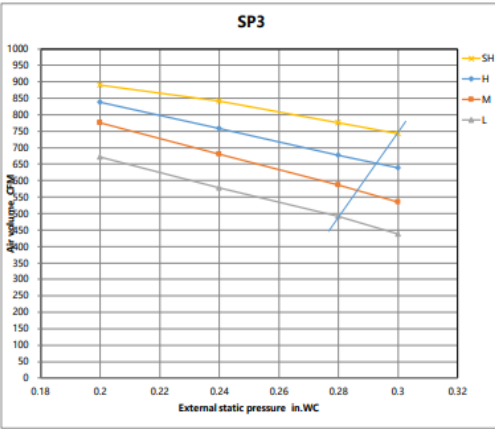
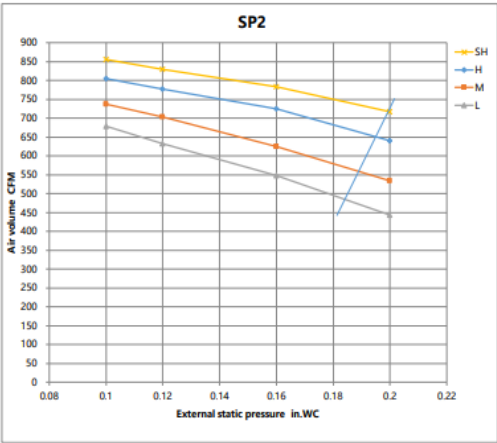
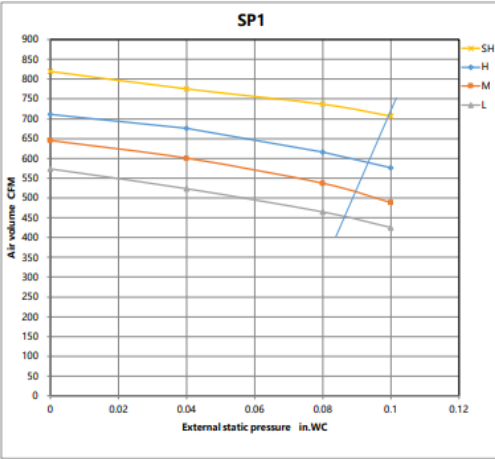


## Installation Instructions

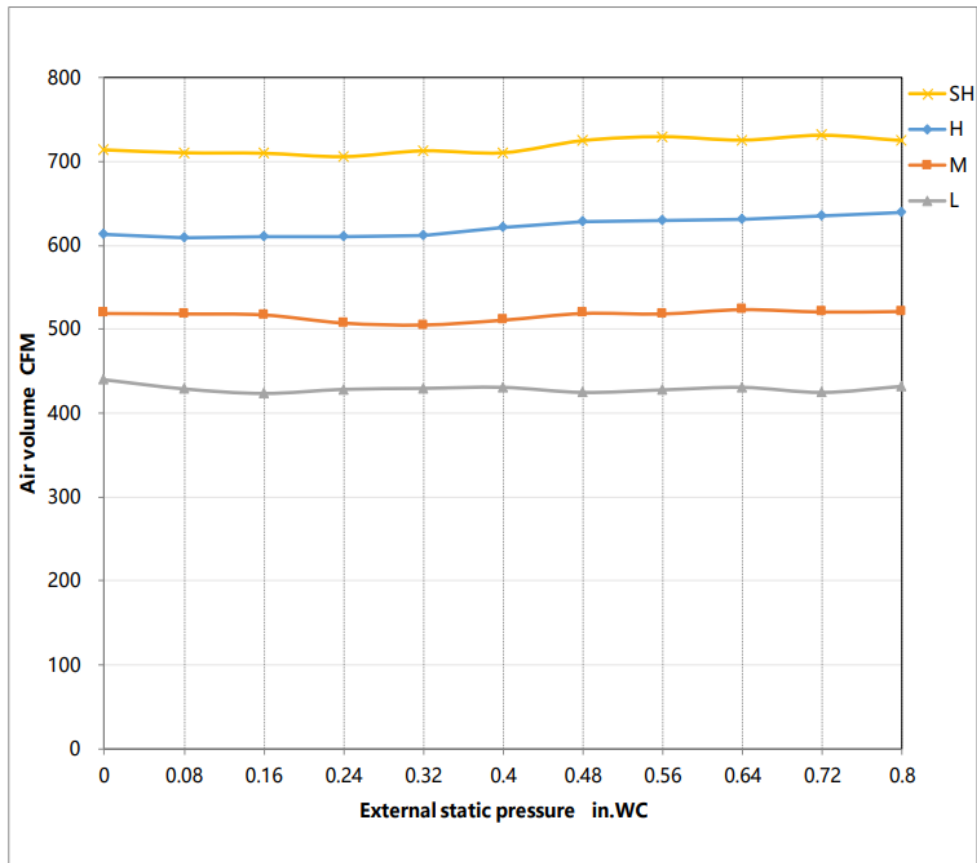


Meets all spatial requirements shown in Installation Clearance Requirements above.

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.