

Submittal Data Sheet

Indoor Unit Model#: ACiQ-12CD-HH-MC Outdoor Unit Model#: ACiQ-12ZPL-HP230C

		12K Concealed Duct	(High Static Pressure) Heat Pump System
Location:			Approval:
Engineer:			Date:
Submitted to:			Construction:
Submitted by:			Unit #:
Reference:			Drawing #:



	EFFICIENCY RATINGS Cooling Heating						
Co	oling	Heating					
SEER2 20		HSPF2-4	10.6				
EER2	12.0	COP	3.63				

COOLING PERF	ORMANCE						
Cooling (Btu/hr)							
Rated Capacity	12000						
Min/Max Capacity	3000~13300						
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)					
Heating (B	tu/hr)				
1. @ 47°F Rated 12000					
1. @ 47°F Min/Max Capacity	3900~16500				
2. @ 17°F Rated	10200				
3. @ 5°F Rated: Capacity / COP	12000 / 1.95				
3. @ 5°F Max: Capacity	12000				
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 (Tur	bo/H/M/L/Si) (CFM)	419.1 / 350.2 / 256.0 / 216.0 / 135.4					
Indoor Noise Level (T	urbo/H/M/L/Si) (dBA)	NA / 32.5 / 30.5 / 28.5 / 26					
Indoor static press	ure range (in.w.g.)	0-0.8					
Dimension	inch	27.56 x 29.53 x 9.65					
(W×D×H)	mm	700.0 × 750.0 × 245.0					
Package	inch	36.42 x 33.46 x 11.73					
(W×D×H)	mm	925 × 850 × 298					
Not/Gross Weight	lbs	64.15 / 73.85					
Net/Gross Weight	kg	29.1 / 33.5					

OUTDOOR UNIT SPECIFICATIONS						
Compresso		ROTARY				
Compresso	KTN110D42UFZ					
Refriger	R454B					
Refrigerant Oil O	350					
Refrigera	nt Oil	6.0				
Outdoor Air Flow	1471.5					
Outdoor Noise I	54.0					
Dimension	inch	31.69 x 12.99 x 21.81				
(W×D×H)	mm	805.0 × 330.0 × 554.0				
Package	inch	36.02 x 14.57 x 24.21				
(W×D×H)	mm	915 × 370 × 615				
Net/Gross Weight	lbs	72.75 / 78.70				
Neu Gross Weight	kg	33 / 35.7				

ELECTRICAL SPECIFICATIONS							
Power Supply	208/230V, 60Hz, 1Ph						
System MCA	15.00						
Connection Wiring	14#x4						
System MOP	15						
Compressor RLA	11.6						
Outdoor Fan Motor RLA	0.5						
Outdoor Fan Motor W	34						
Indoor Fan Motor RLA	1.5						
Indoor Fan Motor W	165						
System Power Input @ Cooling (W)	1000 (150 ~ 1260)						
System Power Input @ Heating (W)	970 (260 ~1420)						
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)						
RLA: Rated load amps (A)	W: Fan motor rated output (W)						

Throttle type (Indoor)	N/A		
Throttle type (Outdoor)	EXV		
Liquid Size	6.35mm (1/4in)		
Gas Size	9.52mm (3/8in)		
Max. Piping Length (ft/m)	82.00 (25)		
Max. Height Difference (ft/m)	49.20 (15)		
Max. Pre-charged Length (ft/m)	24.6 (7.5)		
Refrigerant Pre-charged Amount (oz/kg)	35.27 (1.00)		
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.16 (15)		
Connection Method	Flared		

Air inlet dimensions Air inlet dimensions

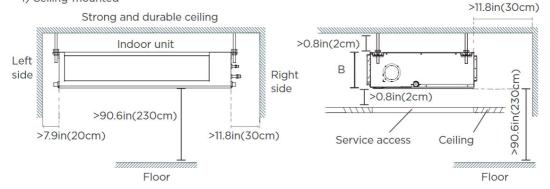
MODEL	OUTLINE DEMENSION			AIR OUTLET OPENING SIZE		AIR RETURN OPENING SIZE		SIZE OF MOUNTED LUG		
	A	В	С	D	E	F	G	н	ı	J
9K/12K	27.6/700	9.6/245	29.5/750	31.3/795	20.7/527	7.0/178	23.3/592	8.3/212	29.1/740	25.2/640
18K/24K	39.4/1000	9.6/245	29.5/750	31.3/795	32.6/827	7.0/178	35.1/892	8.3/212	40.9/1040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



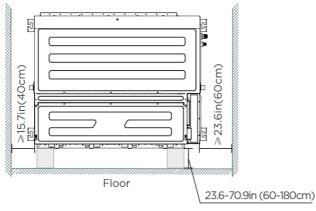
Installation place

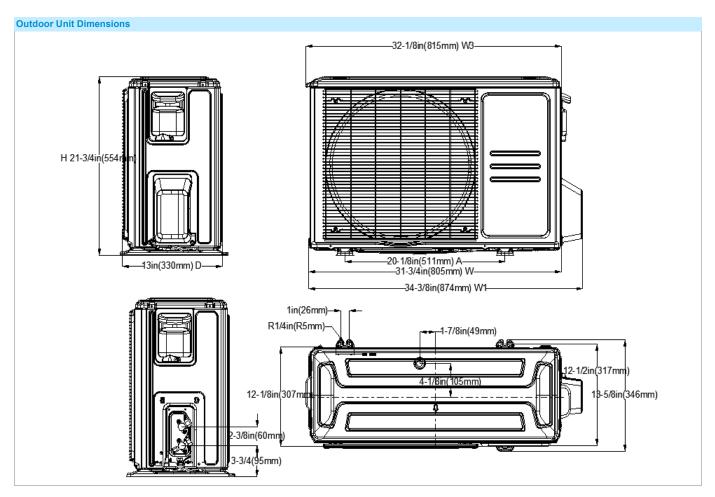
The distance between the mounted indoor unit should meet the specifications illlustrated in the following diagram.

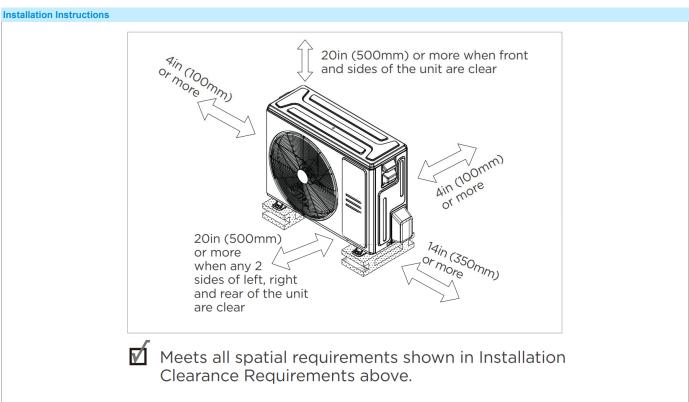
1) Ceiling-mounted

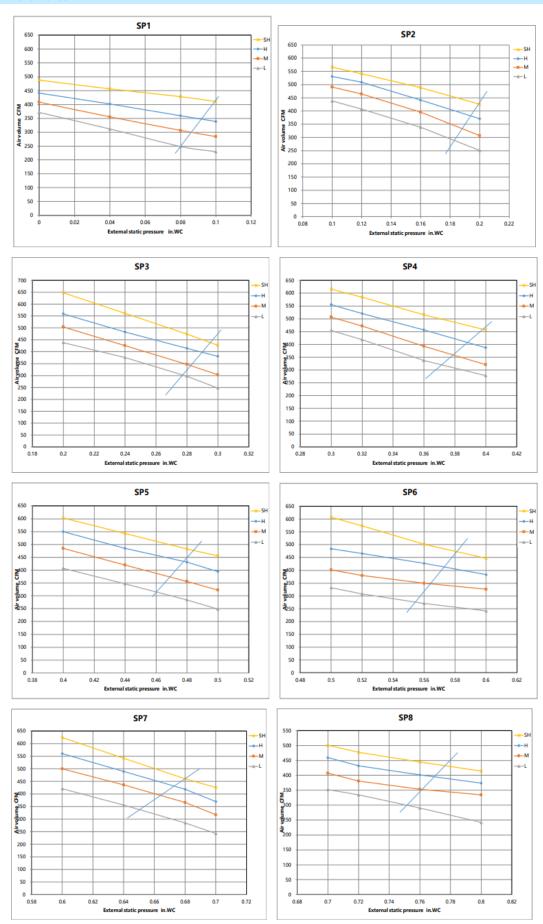


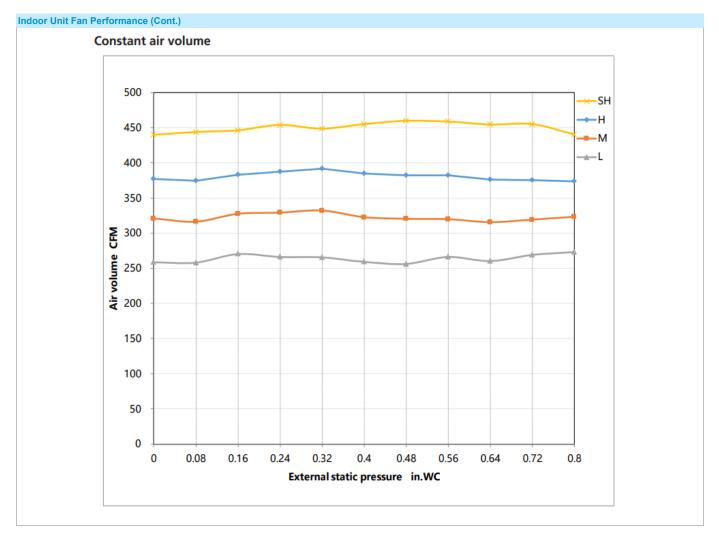
2) Wall-mounted











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)
- o Two way communication wired controller with built-in WiFi: 120N (X6W)
- o Infrared wired controller: 120L
- o Wireless remote controller
- o Third-Party 24V Thermostat*

*24V interface is required.