

Submittal Data Sheet

Indoor Unit Model#: ACiQ-12-AHD
Outdoor Unit Model#: ACiQ-12-EHPD

	or out modeling role in E		
Air Handler Heat Pump System			
Location:	Approval:		
Engineer:	Date:		
Submitted to:	Construction:		
Submitted by:	Unit #:		
Reference:	Drawing #:		



EFFICIENCY RATINGS			
Cooling		Heating	
SEER2	21.0	HSPF2-4	10.0
EER2	12.5	COP	3.87

COOLING PERFORMANCE			
Cooling (Btu/hr)			
Rated Capacity	12000		
Min/Max Capacity	5300~15000		
Moisture Removal (L/h)	1.71		
Standard Operating Range (°F/°C)	-13~122 (-25~50)		
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB		
	Outdoor: 95°F DB/75°F WB		

HEATING PERFORMANCE				
Heating (Btu/hr)				
1. @ 47°F Rated 13000				
2. @ 47°F Min/Max Capacity	5600~19000			
3. @ 17°F Rated	12600			
4. @ 5°F Rated: Capacity / COP	11200 / 2			
5. @ 5°F Max: Capacity	11200			
Standard Operating Range (°F/°C)	-13~75 (-25~24)			
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB			
	Outdoor: 47°F DB/43°F WB			
2. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB			
	Outdoor: 17°F DB/15°F WB			
3. Heating Conditions, Compressor	Indoor: 70°F DB/60°F WB			
Operating at Max. Frequency	Outdoor: 5°F DB/5°F WB			

INDOOR UNIT SPECIFICATIONS				
ndoor Air Flow (Turbo/H/M/L/Si) (CFM)		618.03 / 576.83 / 529.74 / 488.54 / NA		
Indoor Noise Level (Turbo/H/N	//L/Si) (dBA)	44 / 43 / 41 / 33 / NA		
Dimension (W×D×H)	inch	17.52 x 21.02 x 45.00		
	mm	445.0 × 534.0 × 1143.0		
Package	inch	26.57 x 20.87 x 48.62		
(W×D×H)	mm	675 × 530 × 1235		
Net/Gross Weight	lbs	105.82 / 126.76		
	kg	48 / 57.5		

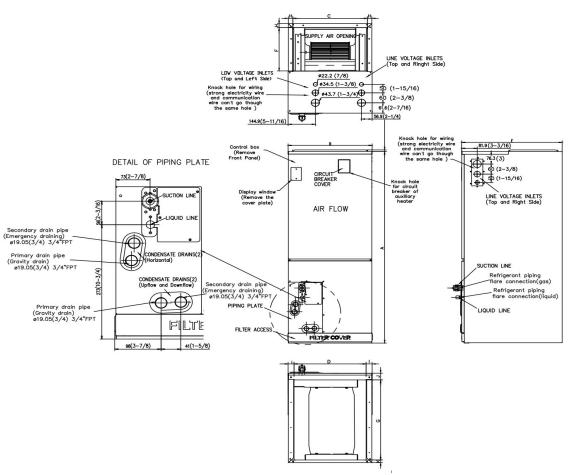
	OUTDOOR UNIT SPECIF	FICATIONS	
Compress	or Type	ROTARY	
Compresso	r Model	KSN140D58UFZ	
Refrige	rant	R454B	
Refrigerant Oil	Charge (mL)	440	
Refrigerant Oil		VG74	
Outdoor Air Flov	(Max) (CFM)	1450.9	
Outdoor Noise	Level (dBA)	55	
Dimension	inch	31.69 x 12.99 x 21.81	
(W×D×H)	mm	805.0 × 330.0 × 554.0	
Package	inch	36.02 x 14.57 x 24.21	
(W×D×H)	mm	915 × 370 × 615	
Net/Gross Weight	lbs	77.16 / 83.77	
	kg	35 / 38	

ELECTRICAL SPECIFICATIONS			
Indoor Power Supply	115/208/230V,60Hz,1Ph		
Indoor MCA 115V/(208/230V)	5.5 / 4.0		
Indoor MOP	15		
Outdoor Power Supply	208/230V,60Hz,1Ph		
Outdoor MCA	16		
Outdoor MOP	20		
Communication Wiring	AWG 20-2		
Compressor RLA	10		
Outdoor Fan Motor RLA	0.8		
Outdoor Fan Motor W	34		
Indoor Fan Motor RLA	2		
Indoor Fan Motor W	250		
System Power Input @ Cooling (W)	960 (400 ~ 1900)		
System Power Input @ Heating (W)	909 (340 ~1650)		
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)		
RLA: Rated load amps (A)	W: Fan motor rated output (W)		

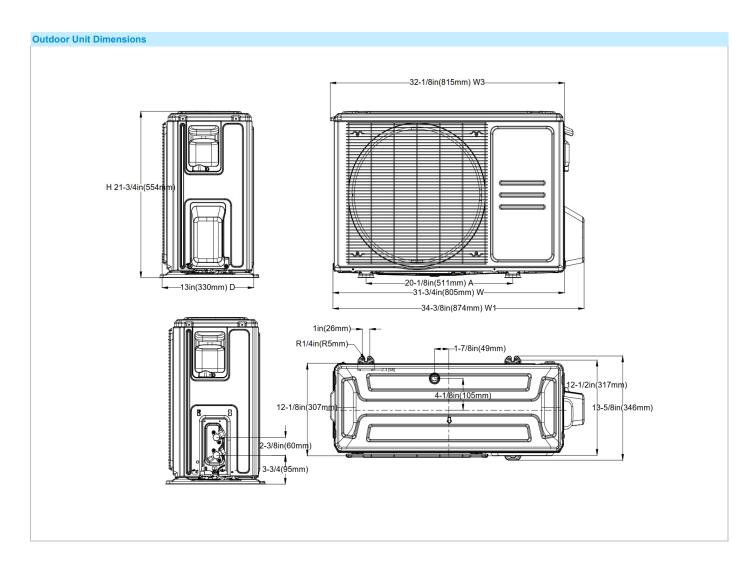
REFRIGERANT PIPING SPECIFICATIONS			
Throttle type (Indoor)	EXV		
Throttle type (Outdoor)	EXV		
Liquid Size	9.52 mm (3/8 in)		
Gas Size	19 mm (3/4 in)		
Max. Piping Length (ft/m)	98.4 (30)		
Max. Height Difference (ft/m)	65.6 (20)		
Max. Pre-charged Length (ft/m)	24.6 (7.5)		
Refrigerant Pre-charged Amount (oz/kg)	51.15 (1.45)		
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.7 (65)		
Connection Method	Flared*		

^{*}The gas valve of the outdoor unit is 5/8", 5/8" to 3/4" flare to flare connector is required for the installation.

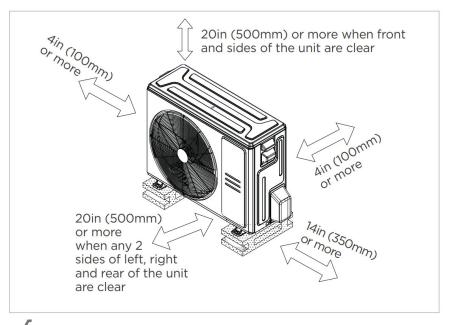
Indoor Unit Dimensions



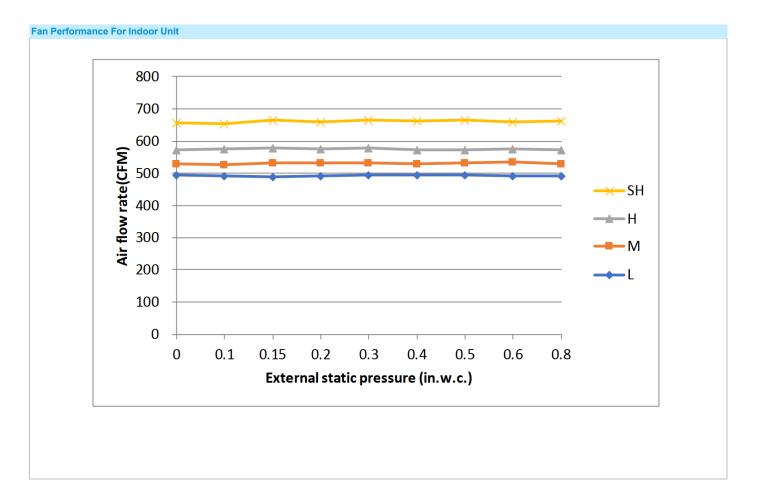
Dimensions Model	18k/24k		30k/36k		48k/60k		
	Model	inch	mm	inch	mm	inch	mm
Α	Model Height	45	1143	49	1245	53	1346
В	Model Width	17-1/2	445	21	534	24-1/2	622
С	Supply Air Opening Width	15-5/8	397	19-1/8	486	22-5/8	575
D	Return Air Opening Width	15-1/8	384	18-5/8	473	22-1/8	562
Е	Model Depth	21	534	21	534	21	534
F	Supply Air Opening Depth	10-1/4	260	10-1/4	260	10-1/4	260
G	Return Air Opening Depth	18-3/4	476	18-3/4	476	18-3/4	476
Н	Supply Air Opening Clearance	15/16	24	15/16	24	15/16	24
ı	Return Air Opening Side Clearance	1-1/4	32	1-1/4	32	1-1/8	28
J	Return Air Opening Front Clearance	1-1/2	38	1-5/8	41	1-5/8	41
K	Return Air Opening Back Clearance	5/8	16	5/8	16	3/4	19



Installation Instructions for Outdoor Unit



Meets all spatial requirements shown in Installation Clearance Requirements above.



Features

- Multi-position installation: horizontal (left or right), vertical (up or down)
- Aluminum Coil
- Constantly Air Flow system up to 0.80 In.W.G
- 1 inch R4.2 fiberglass free insulation reduces condensation and boosts efficiency (optional)
- Optional Auxiliary heat kit up to 25kW
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - o Two way communication wired controller with built-in WiFi:120N(X6W)
 - o Wireless remote controller
 - o Third-Party 24V Thermostat
- ●Adaptive Control System
- High efficiency up to 21 SEER2, 12.5 EER2, 10 HSPF2
- Chassis heater and crankcase heater equipped as standard