

Submittal Data Sheet

Indoor Unit Model#: ACiQ-42-AHD Outdoor Unit Model#: ACiQ-42-HPD

Air Handler Heat Pump System			
Location: Approval:			
Engineer:	Date:		
Submitted to:	Construction:		
Submitted by:	Unit #:		
Reference:	Drawing #:		



EFFICIENCY RATINGS			
Cod	oling	Hea	iting
SEER2	16.7	HSPF2-4	9.5
EER2	11.7	COP	3.40

COOLING PERFO	DRMANCE	
Cooling (Btu/hr)		
Rated Capacity	42000	
Min/Max Capacity	15600~51000	
Moisture Removal (L/h)	3.85	
Standard Operating Range °F (°C)	-22~122 (-30~50)	
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB	
	Outdoor: 95°F DB/75°F WB	

HEATING PERFO	DRMANCE
Heating (Bi	tu/hr)
1. @ 47°F Rated	50000
1. @ 47°F Min/Max Capacity	15500~57300
2. @ 17°F Rated	37000
3. @ 5°F Rated: Capacity / COP	46000 / 1.9
3. @ 5°F Max: Capacity	46000
Standard Operating Range °F (°C)	-22~75 (-30~24)
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

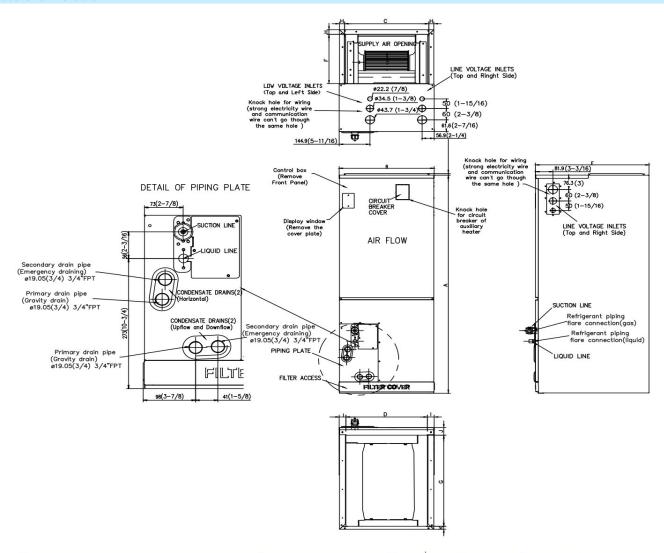
	INDOOR UNIT SPE	CIFICATIONS		
ESP (in.W.G)		0-0.8		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1601.0 / 1471.5 / 1283.1 / 1094.8 / NA		
Indoor Noise Level (Turbo	o/H/M/L/Si) (dBA)	NA / 52 / 50 / 34 / NA		
Dimension (W×D×H)	inch	24.49 x 21.02 x 52.99		
	mm	622.0 × 534.0 × 1346.0		
Package (W×D×H)	inch	27.95 x 26.77 x 56.50		
	mm	710 × 680 × 1435		
Net/Gross Weight	lbs	162.92 / 190.92		
	kg	73.9 / 86.6		

	OUTDOOR UNIT SE	PECIFICATIONS		
Compressor Type		ROTARY		
Compressor Model		MTH550UKPC8FU		
Refrigerant		R454B		
Refrigerant O	il Charge (mL)	1800		
Refrige	erant Oil	HAF68D1C		
Outdoor Air Flow (Max) (CFM)		3037.1		
Outdoor Noise Level (dBA)		65		
Dimension (W×D×H)	inch	38.58 x 16.34 x 38.39		
	mm	980.0 × 415.0 × 975.0		
Package	inch	45.08 x 19.68 x 42.52		
(W×D×H)	mm	1145 × 500 × 1080		
N-4/C W-:	lbs	201.06 / 232.36		
Net/Gross Weight	kg	91.2 / 105.4		

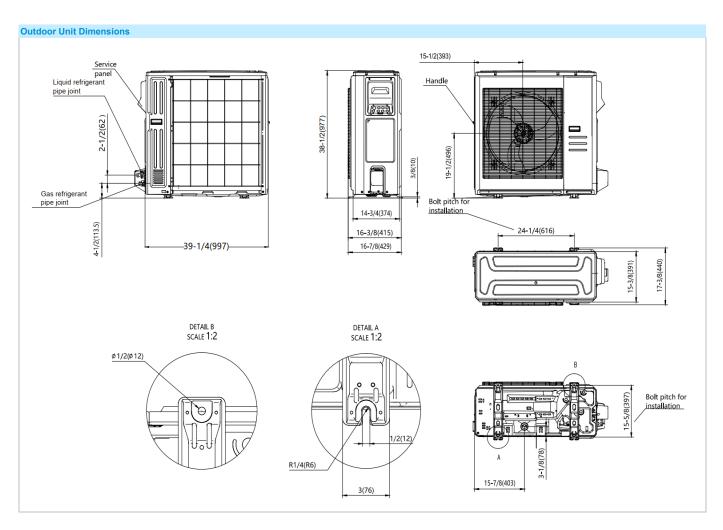
ELECTRICAL SPEC	IFICATIONS			
Indoor Power Supply	115/208/230V,60Hz,1Ph			
Indoor MCA 115V / (208/230V)	14.5 / 11.0			
Indoor MOP	15 208/230V,60Hz,1Ph			
Outdoor Power Supply				
Outdoor MCA	38			
Outdoor MOP	40			
Communication Wiring AWG 20-2				
Compressor RLA	28 2 250			
Outdoor Fan Motor RLA				
Outdoor Fan Motor W				
Indoor Fan Motor RLA	7.8			
Indoor Fan Motor W	750			
System Power Input @ Cooling (W)	3590 (1345 ~ 5180)			
System Power Input @ Heating (W)	4310 (1045 ~5200)			
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)			
RLA: Rated load amps (A)	W: Fan motor rated output (W)			

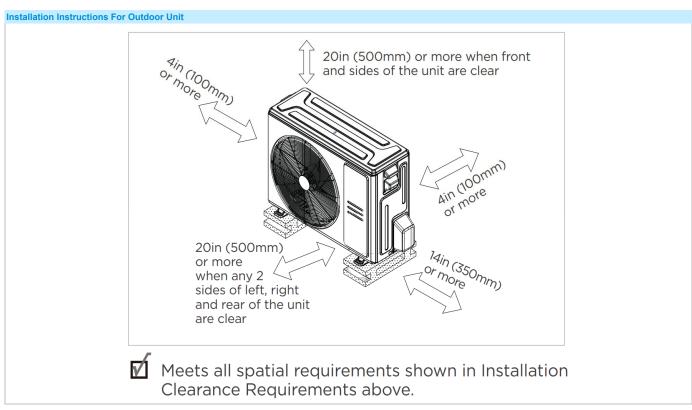
REFRIGERANT PIPING SPECIFICATIONS			
Throttle type (Indoor)	EXV		
Throttle type (Outdoor)	EXV		
Liquid Size 9.52mm (3/8in)			
Gas Size	19mm (3/4in)		
Max. Piping Length (ft/m)	246 / 75		
Max. Height Difference (ft/m)	98.4 / 30		
Max. Pre-charged Length (ft/m)	24.6 / 7.5		
Refrigerant Pre-charged Amount (oz/kg)	134.04 / 3.8		
Additional Refrigerant Charge (oz/ft) / (g/m)	0.7 / 65		
Connection Method	Flared		

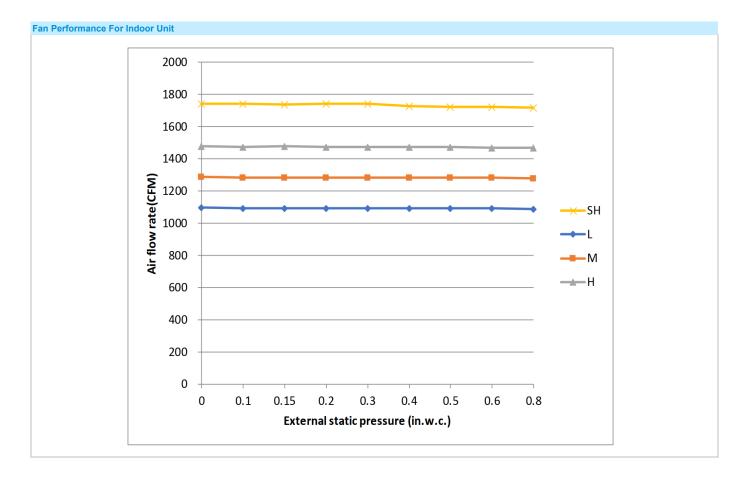




	Model	18k/24k		30k/36k		42k/48k/60k	
Dimensions		inch	mm	inch	mm	inch	mm
А	Model Height	45	1143	49	1245	53	1346
В	Model Width	17-1/2	445	21	534	24-1/2	622
С	Supply Air Opening Width	15-5/8	397	19-1/8	486	22-5/8	575
D	Return Air Opening Width	15-1/8	384	18-5/8	473	22-1/8	562
Е	Model Depth	21	534	21	534	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
1	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







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:
 - o Two way communication wired controller:120N(X6)
 - o Two way communication wired controller with built-in WiFi:120N(X6W)
 - $\circ \ \text{Wireless remote controller}$
 - $\circ \ \text{Third-Party 24V Thermostat}$
- Adaptive Control System
- High efficiency up to 19 SEER2, 12.5 EER2, 10.3 HSPF2
- 100% heat output at -4F*
- Chassis heater and crankcase heater equipped as standard

* For 36K model, rated cooling capacity/heating capacity at -4F=100%