

Submittal Data Sheet

Indoor Unit Model#: ACiQ-48-PAH Outdoor Unit Model#: ACiQ-48-HPD

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



INDOOR UNIT SPECIFICATIONS				
FS	SP (inWG)	0~1.2		
	Air Flow (Turbo/H/M/L/Si) (CFM) 1601.0 / 1442.1 / 1265.5 / 108			
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		NA / 53.0 / 49.5 / 33.5 / NA		
Dimension (W×D×H)	inch	21.50 x 21.50 x 55.94		
	mm	546.0 × 546.0 × 1421		
Package	inch	59.84 x 25.00 x 31.10		
(W×D×H)	mm	1520 × 635 × 790		
Net/Cuese Weight	lbs	186.51 / 232.14		
Net/Gross Weight	kg	84.6 / 105.3		

OUTDOOR UNIT SPECIFICATIONS				
Compressor Type		ROTARY		
Compressor Model		MTH550UKPC8FU		
Refrigerant		R454B		
Refrigerant Oil Charge (mL)		1800		
Refrigerant Oil		HAF68D1C		
Outdoor Air Flow (Max) (CFM)		3037.2		
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		
Nat/Cuasa Waimbt	lbs	232.59 / 201.50		
Net/Gross Weight	kg	105.5 / 91.4		

Cooling Heating	
SEER2 17.5 HSPF2-4 9.5	
EER2 12.0 COP 3.28	

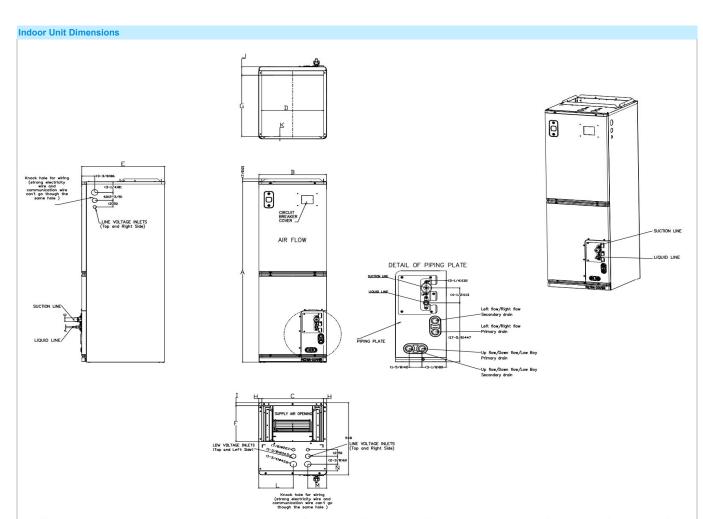
COOLING PERFORMANCE			
Cooling (Btu/hr)			
Rated Capacity 48000			
Min/Max Capacity	18000~52000		
Moisture Removal (L/h)	4.94		
Standard Operating Range (°F/°C)	-22~122 (-30~50)		
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB		
	Outdoor: 95°F DB/75°F WB		

HEATING PERFORMANCE				
Heating (Btu/hr)				
1. @ 47°F Rated 48000				
I. @ 47°F Min/Max Capacity 13500~52000				
2. @ 17°F Rated	34000			
3. @ 5°F Rated: Capacity / COP	48000 / 2			
3. @ 5°F Max: Capacity	48000			
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			

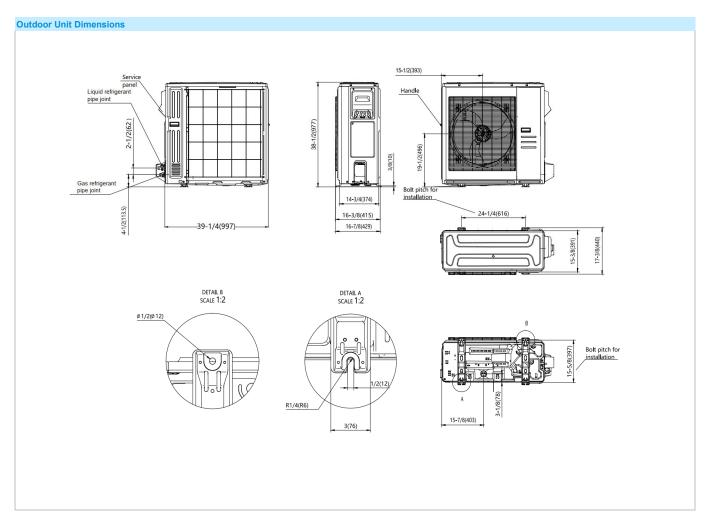
* When ACiQ-48-HPD is paired with ACiQ-48-PAH, an additional 0.65kg/22

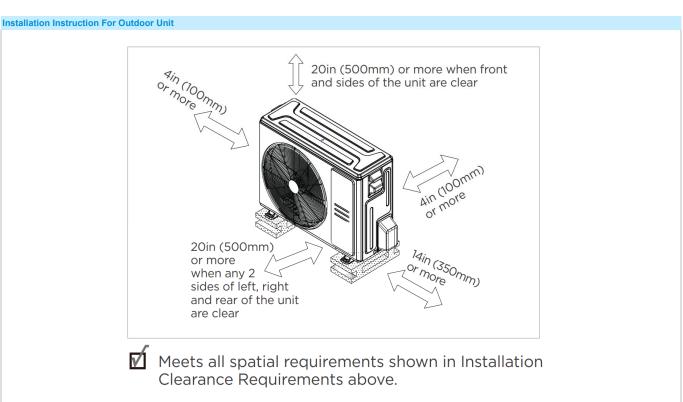
ELECTRICAL SPECIFICATIONS					
Indoor Power Supply	115/208/230V,60Hz,1Ph				
Indoor MCA 115V/(208/230V)	14.5 / 10				
Indoor MOP	15				
Outdoor Power Supply 208/230V,60Hz,1Ph					
Outdoor MCA 38					
Outdoor MOP	40				
Communication Wiring	AWG 20-2				
Compressor RLA	28				
Outdoor Fan Motor RLA 2					
Outdoor Fan Motor W	250				
Indoor Fan Motor RLA	8				
Indoor Fan Motor W	N/A				
System Power Input @ Cooling (W)	4266 (1300 ~ 4870)				
System Power Input @ Heating (W)	4521 (925 ~3880)				
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)				
RLA: Rated load amps (A)	W: Fan motor rated output (W)				

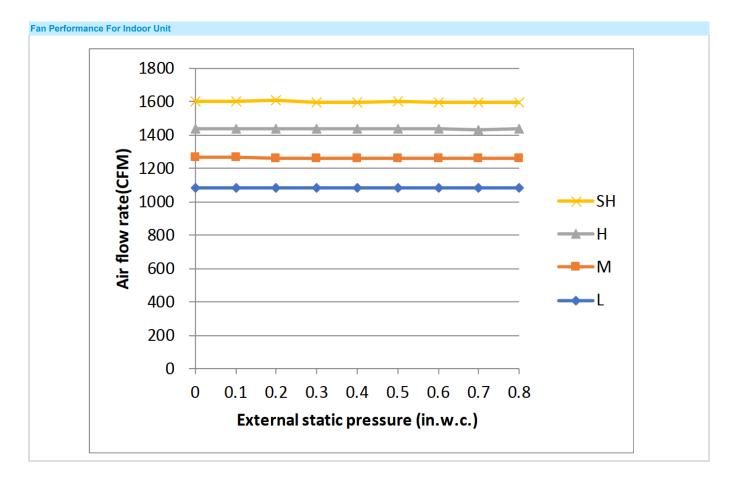
REFRIGERNAT PIPING SPECIFICATIONS				
Throttle type (Indoor)	EXV			
Throttle type (Outdoor)	EXV			
Liquid Size	9.52mm (3/8in)			
Gas Size	19mm (3/4in)			
Max. Piping Length (ft/m)	246 (75)			
Max. Height Difference (ft/m)	98.4 (30)			
Max. Pre-charged Length (ft/m)	24.6 (7.5)			
Refrigerant Pre-charged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



	. Model(Btu/h)	18K,	/24K	30K,	/36K	48K,	/54K
Dimens	sions	inch	mm	inch	mm	inch	mm
Α	Model Height	49-3/4	1263	54	1371	56	1421
В	Model Width	14-1/2	368	17-1/2	445	21-1/2	546
С	Supply Air Opening Width	12-7/8	328	16	405	19-7/8	506
D	Return Air Opening Width	13	331	16	407	20	509
E	Model Depth	21-1/2	546	21-1/2	546	21-1/2	546
F	Supply Air Opening Depth	10-5/8	271	10-5/8	271	10-5/8	271
G	Return Air Opening Depth	18-1/4	465	18-1/4	465	18-1/4	465
Н	Supply Air Opening Clearance	7/8	22	7/8	22	7/8	22
	Supply Air Opening Clearance	1	24	1	24	1	24
J	Return Air Opening Front Clearance	2-1/2	65	2-1/2	65	2-1/2	65
K	Return Air Opening Back Clearance	3/4	18	3/4	18	3/4	18
L	Top cover knock hole	7		9	229	10-7/8	275
М	Top cover knock hole	4-1/2	113	4-7/8	124	5-1/8	131
N	Top cover knock hole	2	51	2	51	1-5/8	41
0	Refrigerant piping flareconnection(gas)	3/4	19	3/4	19	3/4	19
Р	Refrigerant piping flareconnection(liquid)	3/8	9	3/8	9	3/8	9







Features

- Multi-position installation: horizontal (left or right), vertical (up or down)
- 115/230V voltage compatible for IDU
- Aluminum Coil
- Constantly Air Flow system up to 1.0 In.W.G
- 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)
 - o Wireless remote controller
 - o Third-Party 24V Thermostat
- Adaptive Control System
- High efficiency up to 19 SEER2, 12.5 EER2, 10.8 HSPF2
- 100% heat output at -13F*
- Chassis heater and crankcase heater equipped as standard