



Submittal Data Sheet

Indoor Unit Model#: ACiQ-18-PAH
Outdoor Unit Model#: ACiQ-18-HPD

Air Handler Heat Pump System

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

System Product Code: 810175550749
Indoor Unit Product Code: 810175550756
Outdoor Unit Product Code: 810175550534



INDOOR UNIT SPECIFICATIONS

ESP (inWG)		0~1.2
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		618.0 / 576.8 / 529.7 / 488.5 / NA
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		NA / 42.5 / 40.5 / 37 / NA
Dimension (W×D×H)	inch	14.49 × 21.50 × 49.72
	mm	368.0 × 546.0 × 1263
Package (W×D×H)	inch	52.95 × 17.52 × 31.10
	mm	1345 × 445 × 790
Net/Gross Weight	lbs	123.02 / 154.76
	kg	55.8 / 70.2

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		ROTARY
Compressor Model		KTM240D46UKT2
Refrigerant		R454B
Refrigerant Oil Charge (mL)		620
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1765.8
Outdoor Noise Level (dBA)		56.5
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	101.41 / 109.13
	kg	46 / 49.5

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	19.0	HSPF2-4	10.1
EER2	12.5	COP	3.60

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	4600~23100
Moisture Removal (L/h)	1.76
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	18000
1. @ 47°F Min/Max Capacity	5700~23100
2. @ 17°F Rated	14700
3. @ 5°F Rated: Capacity / COP	18600 / 2.12
3. @ 5°F Max: Capacity	18600
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

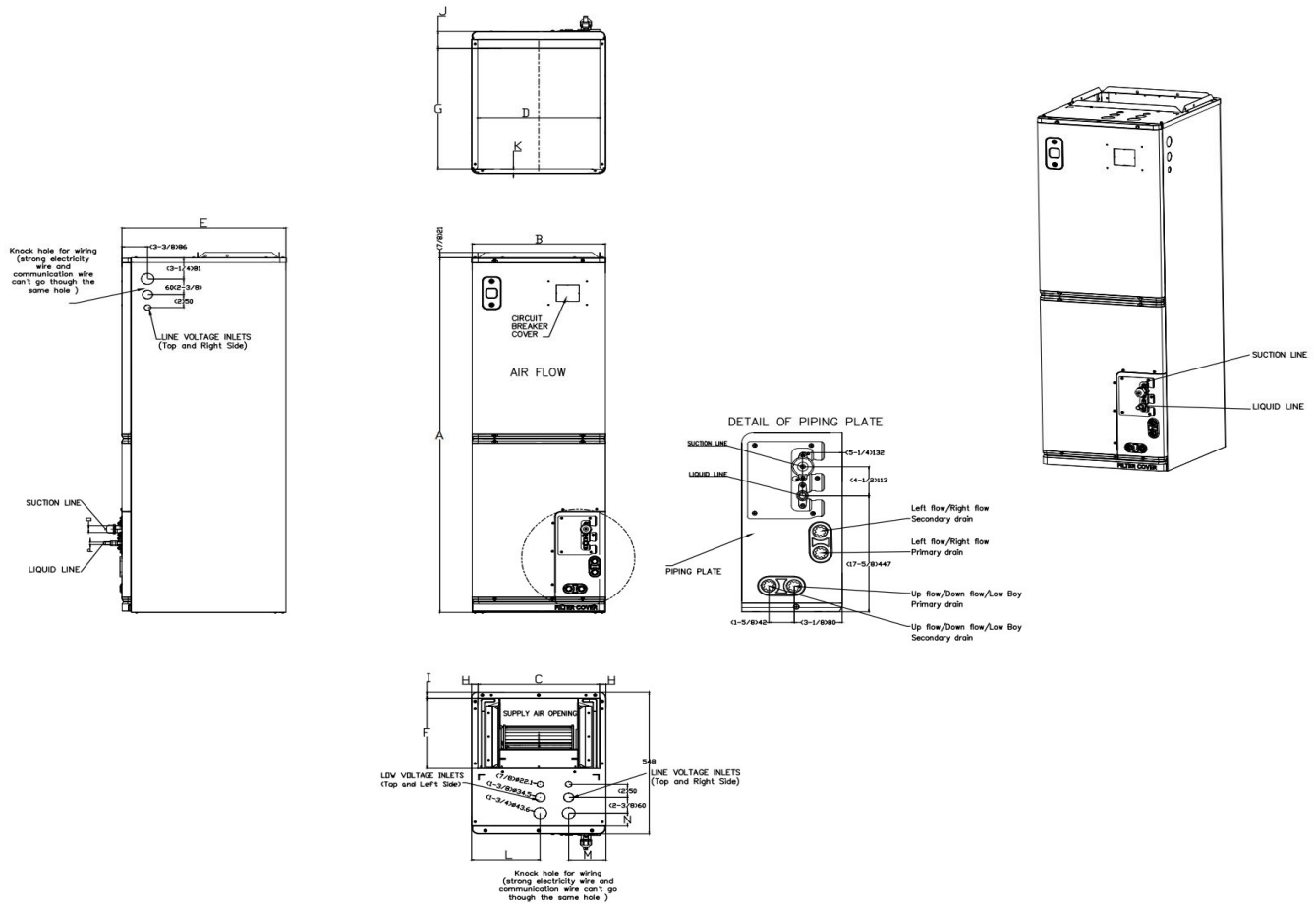
ELECTRICAL SPECIFICATIONS

Indoor Power Supply	115/208/230V, 60Hz, 1Ph
Indoor MCA 115V / (208/230V)	5.5 / 3.5
Indoor MOP	15
Outdoor Power Supply	208/230V, 60Hz, 1Ph
Outdoor MCA	17
Outdoor MOP	20
Communication Wiring	AWG 20-2
Compressor RLA	12
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	2
Indoor Fan Motor W	N/A
System Power Input @ Cooling (W)	1440 (530 ~ 2020)
System Power Input @ Heating (W)	1465 (410 ~ 1900)
MCA: Min. circuit amps (A)	MOP: Max. overcurrent protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

REFRIGERANT PIPING SPECIFICATIONS

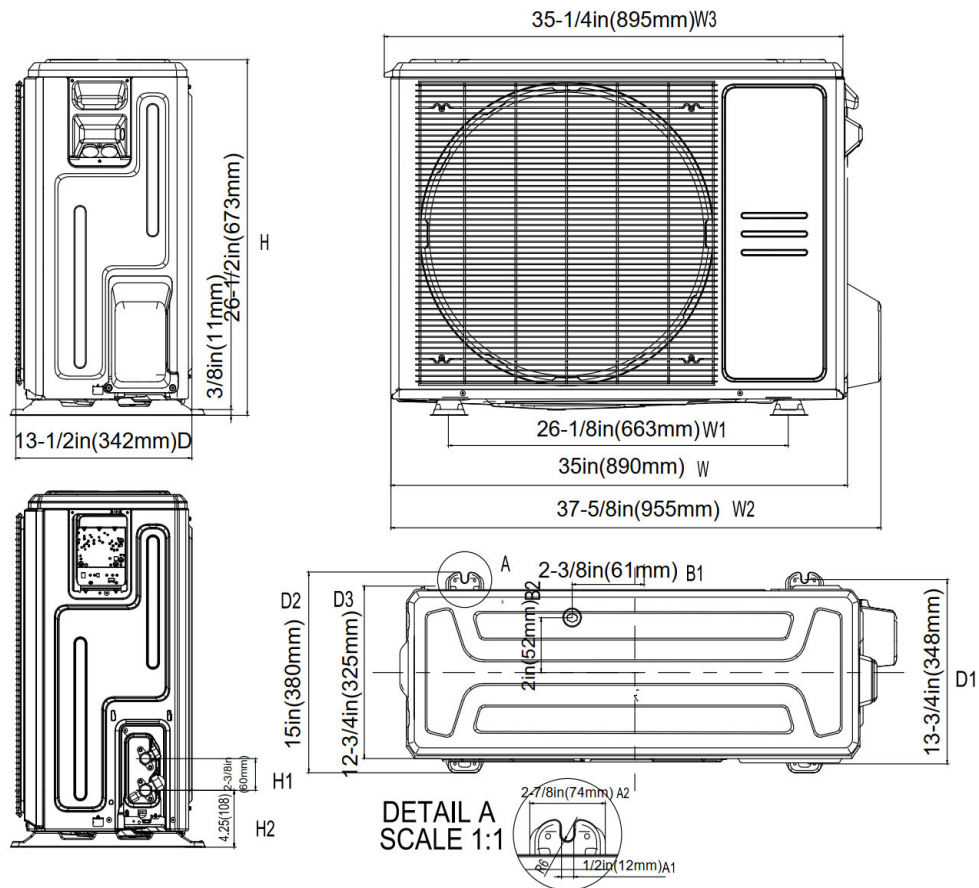
Throttle type (Indoor)	EXV
Throttle type (Outdoor)	EXV
Liquid Size	9.52mm (3/8in)
Gas Size	19mm (3/4in)
Max. Piping Length (ft/m)	164 (50)
Max. Height Difference (ft/m)	82 (25)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	74.08 (2.1)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.7 (65)
Connection Method	Flared

Indoor Unit Dimensions

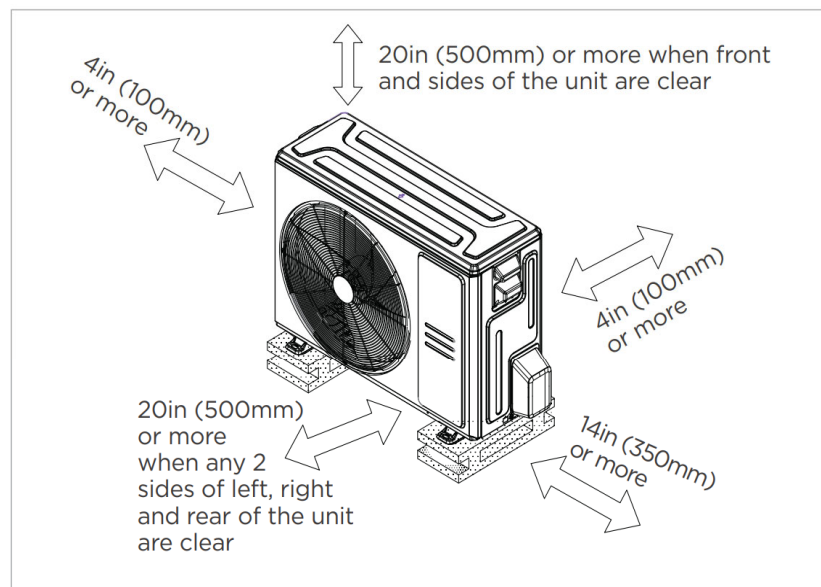


Model(Btu/h)		18K/24K		30K/36K		48K/54K	
Dimensions		inch	mm	inch	mm	inch	mm
A	Model Height	49-3/4	1263	54	1371	56	1421
B	Model Width	14-1/2	368	17-1/2	445	21-1/2	546
C	Supply Air Opening Width	12-7/8	328	16	405	19-7/8	506
D	Return Air Opening Width	13	331	16	407	20	509
E	Model Depth	21-1/2	546	21-1/2	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
H	Supply Air Opening Clearance	7/8	22	7/8	22	7/8	22
I	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	/	/	9	229	10-7/8	275
M	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
O	Refrigerant piping flareconnection(gas)	3/4	19	3/4	19	3/4	19
P	Refrigerant piping flareconnection(liquid)	3/8	9	3/8	9	3/8	9

Outdoor Unit Dimensions

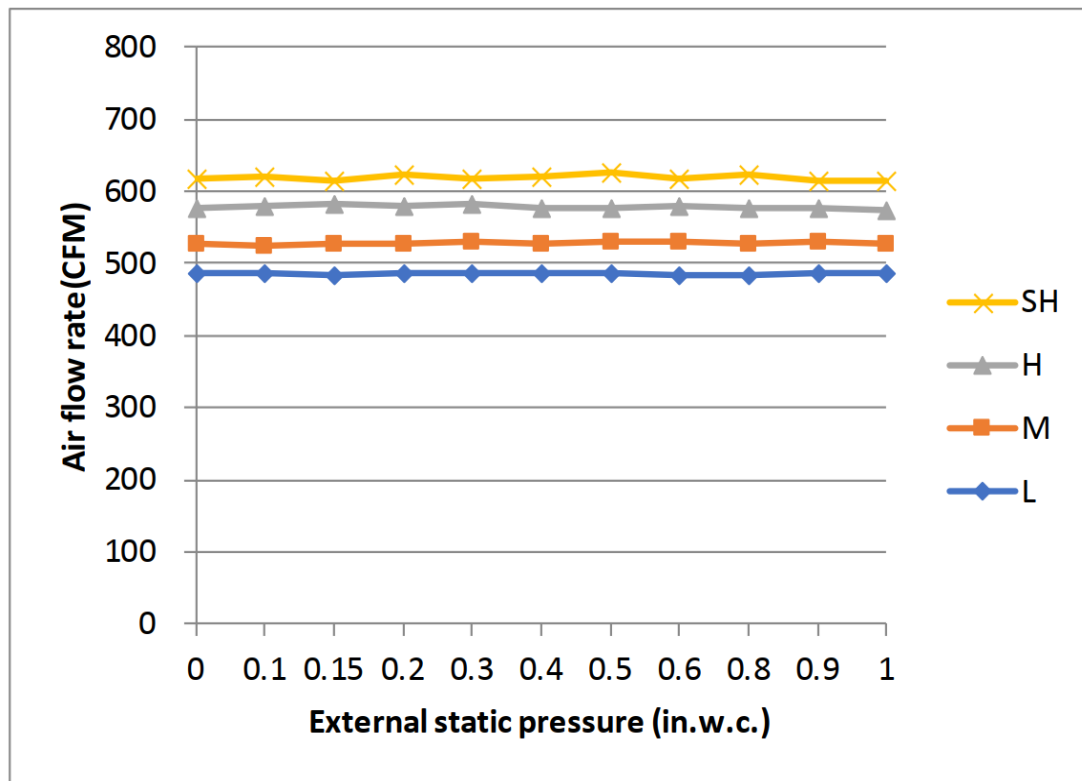


Installation Instruction For Outdoor Unit



☒ Meets all spatial requirements shown in Installation Clearance Requirements above.

Fan Performance For Indoor Unit



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:
 - Two way communication wired controller: 120N (X6)
 - Two way communication wired controller with built-in WiFi: 120N (X6W)
 - Wireless remote controller
 - 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

* For ACiQ-36-PAH pairing with ACiQ-36-HPD, rated cooling capacity/heating capacity at -13F=100%