Submittal Data Sheet

Indoor Unit Model#: ACiQ-48-ACL-B
Outdoor Unit Model#: ACiQ-48-HPD

48K EVAPORATOR A-COIL & 48K EXT. HEAT PUMP CONDENSER

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

System Product Code: 810175552897
A-Coil Product Code: 810175552675
Outdoor Unit Product Code: 810175550640

INDOOR UNIT SPECIFICATIONS

Dimension (W×D×H)	inch	21-5/8 x 21-1/2 x 27-3/4
	mm	549 x 546 x 706
Package (W×D×H)	inch	31-1/8 x 25 x 25-5/8
	mm	790 x 635 x 650
Net/Gross Weight	lbs	97 / 115
	kg	43.9 / 52.2

OUTDOOR UNIT SPECIFICATIONS

Compressor Type		ROTARY
Compressor Model		MTH550UKPC8FU
Refrigerant		R454B
Refrigerant Oil Charge (mL)		1800
Refrigerant Oil		HAF68D1C
Outdoor Air Flow (Max) (CFM)		3037.1
Outdoor Noise Level (dBA)		65
Dimension (W×D×H)	inch	38-9/16 x 16-3/8 x 38-3/8
	mm	980 × 415 × 975
Package (W×D×H)	inch	45-1/16 x 19-11/16 x 42-1/2
	mm	1145 × 500 × 1080
Net/Gross Weight	lbs	201 / 232
	kg	91.2 / 105.4

EFFICIENCY RATINGS

Cooling		Heating	
SEER2	15.2	HSPF2-4	8.8
EER2	10.0	COP	3.12

COOLING PERFORMANCE

Cooling (Btu/hr)	
Rated Capacity	45000
Min/Max Capacity	16000-48000
Moisture Removal (L/h)	6.5
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
1. @ 47°F Min/Max Capacity	16000-50000
2. @ 17°F Rated	34400
3. @ 5°F Rated: Capacity / COP	42000 / 1.85
3. @ 5°F Max. Capacity	42000
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*	Indoor: 70°F DB/60°F WB
	Outdoor: 5°F DB/5°F WB

*Compressor Operating at Max. Frequency

ELECTRICAL SPECIFICATIONS

Indoor Power Supply	24V, 60Hz, 1Ph
Indoor MCA 115V/(208/230V)	N/A
Indoor MOP	N/A
Outdoor Power Supply	208/230, 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	N/A
Indoor Fan Motor RLA	N/A
Indoor Fan Motor W	N/A
System Power Input @ Cooling (W)	4500 (1400-5080)
System Power Input @ Heating (W)	4500 (1200-5300)
MCA: Min. circuit amps (A)	**MOP:** Max. overcurrent protection (A)
RLA: Rated load amps (A)	**W:** Fan motor rated output (W)

REFRIGERANT PIPING SPECIFICATIONS

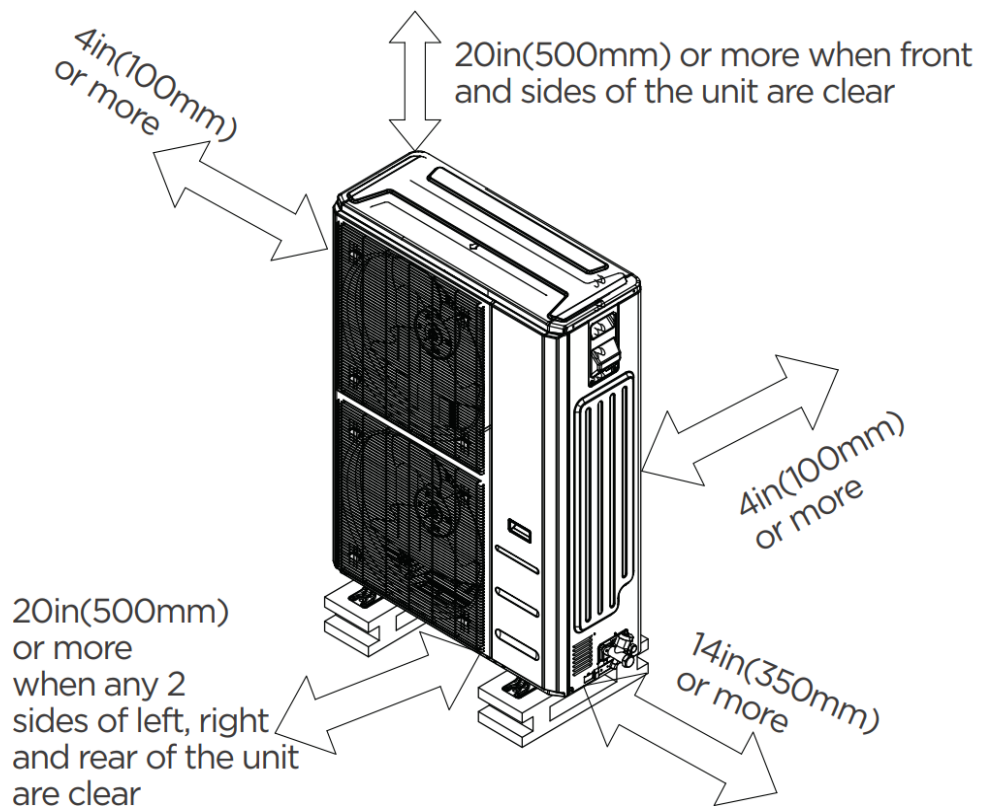|	
Throttle type (Indoor)	EXV
Throttle type (Outdoor)	EXV
Liquid Size	9.52 mm (3/8 in)
Gas Size	19 mm (3/4 in)
Max. Piping Length (ft/m)	246 (75)
Max. Height Difference (ft/m)	98.4 (30)
Max. Pre-charged Length (ft/m)	24.6 (7.5)
Refrigerant Pre-charged Amount (oz/kg)	134.04 (3.8)
Additional Charge of Refrigerant ((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared
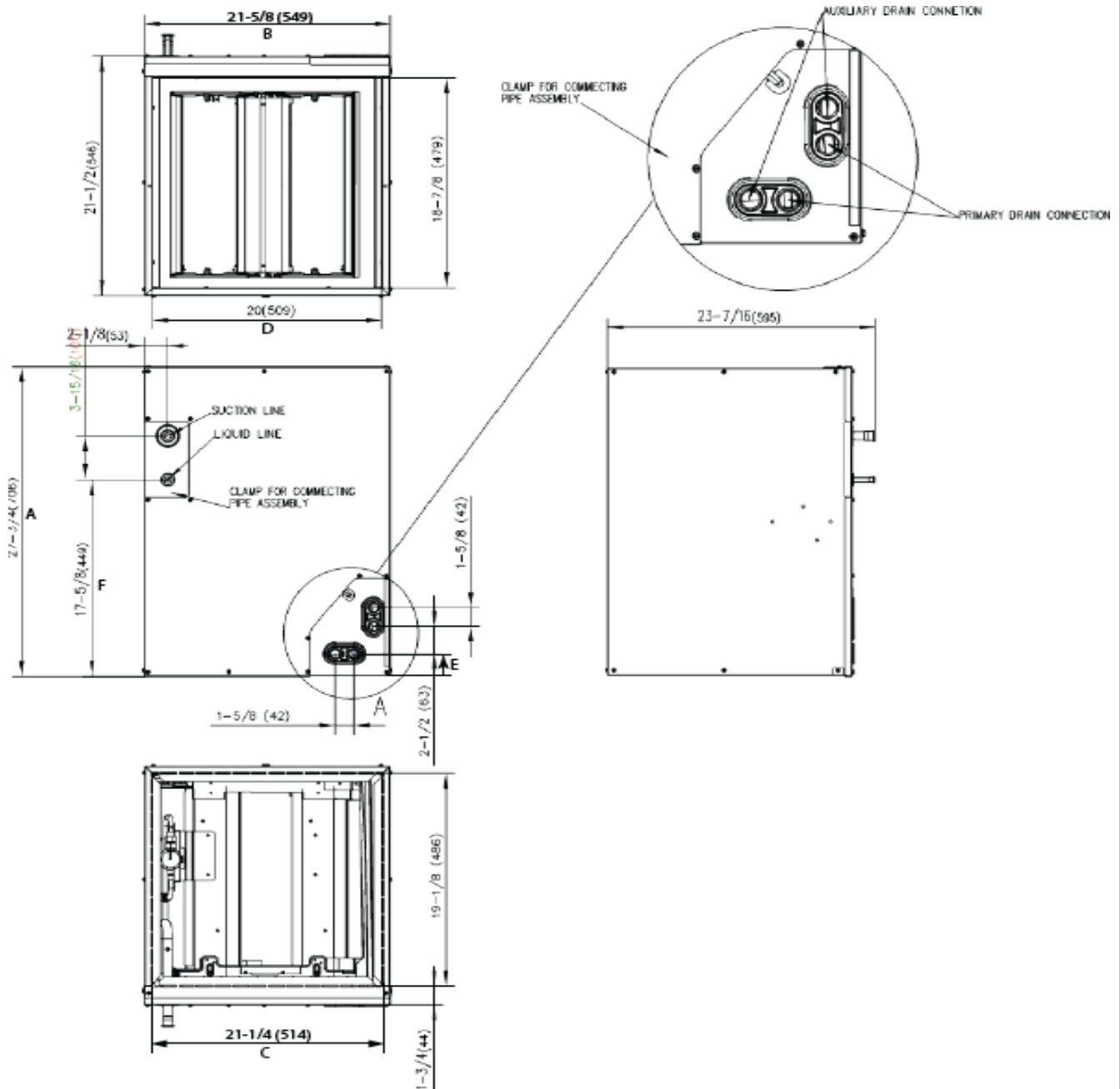
	Model	ACiQ-24-ACL-B	ACiQ-24-ACL-14-B	ACiQ-36-ACL-B	ACiQ-36-ACL-17-B	ACiQ-48-ACL-B	ACiQ-60-ACL-B
Dimensions		inch (millimeter)	inch (millimeter)	inch (millimeter)	inch (millimeter)	inch (millimeter)	inch (millimeter)
A	**Unit Height**	18 (457)	18 (457)	24 (611)	23-9/16 (599)	27-3/4 (706)	28 (711)
B	**Unit Width**	17-1/2 (445)	14-1/2 (368)	21 (534)	17-1/2 (445)	21-5/8 (549)	24-1/2 (622)
C	**Supply Air Opening Width**	16-3/16 (411)	13-1/4 (336)	19-3/4 (502)	16-3/16 (411)	21-1/4 (514)	23-1/4 (591)
D	**Return Air Opening Width**	14-15/16 (380)	11-15/16 (303)	19-1/2 (498)	14-15/16 (380)	20 (509)	23-1/8 (587)
E	**Condensate Drain Height**	1-7/16 (38)	1-7/16 (38)	2-3/16 (55)	1-7/16 (38)	2-1/8 (50)	2-3/16 (55)
F	**Liquid Line Height**	11-3/8 (290)	11-3/8 (290)	17-1/2 (445)	16-3/8 (417)	17-5/8 (449)	21-7/16 (545)

OUTDOOR UNIT DIMENSIONS

Service panel

Liquid refrigerant pipe joint

Gas refrigerant pipe joint

2-1/2(62)

4-1/2(113.5)

39-1/4(997)

15-1/2(393)

Handle

38-1/2(977)

3/8(10)

19-1/2(496)

Bolt pitch for installation

14-3/4(374)

16-3/8(415)

16-7/8(429)

24-1/4(616)

15-3/8(391)

17-3/8(440)

DETAIL B
SCALE 1:2

ø 1/2(ø 12)

DETAIL A
SCALE 1:2

1/2(12)

R1/4(R6)

3(76)

B

A

15-5/8(397)

3-1/8(78)

15-7/8(403)

Bolt pitch for installation
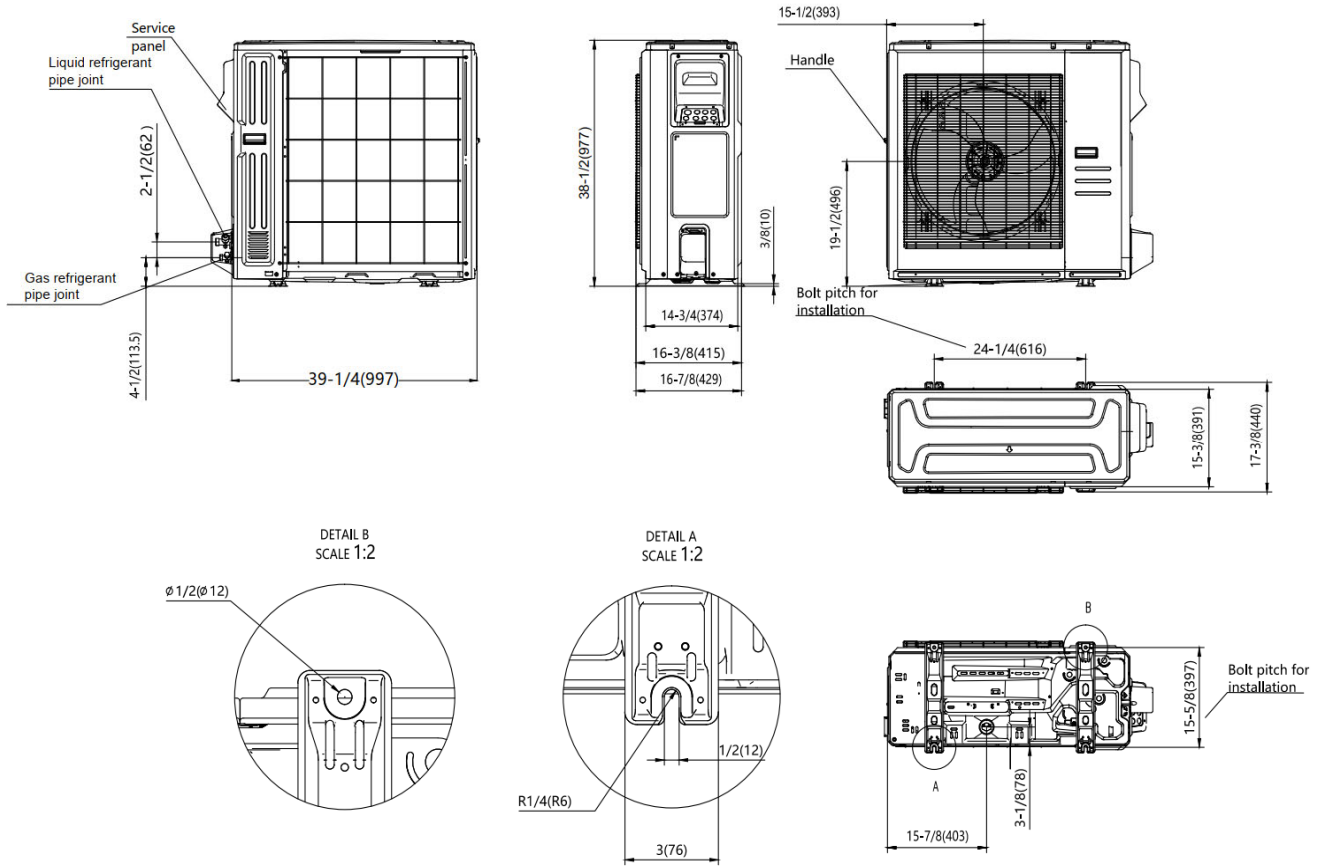
INSTALLATION INSTRUCTIONS FOR OUTDOOR UNIT

4in(100mm) or more

20in(500mm) or more when front and sides of the unit are clear

4in(100mm) or more

20in(500mm) or more when any 2 sides of left, right and rear of the unit are clear

14in(350mm) or more

FEATURES

- Multi-position installation: horizontal (left or right), vertical (up or down)
- Aluminum Coil
- R454B refrigerant sensor
- Easy Maintenance
- Multiple control options available:
  - Two way communication wired controller with built-in WiFi:120N(X6W)
  - Third-Party 24V Thermostat