



SUBMITTAL DATA SHEET

AHU Heat Pump System

Location: _____
Engineer: _____
Submitted to: _____
Submitted by: _____
Reference: _____

Approval: _____
Date: _____
Construction: _____
Unit #: _____
Drawing #: _____

Set Code 22023110000891
Indoor unit code 22023111000272
Outdoor unit code 22023116000141

Set Model
Indoor unit model ACIQ-48-AHB
Outdoor unit model ACIQ-48-HPB

Certified

AHRI



UL



SYSTEM PERFORMANCE DATA

Power supply

Normal Operational Voltage (V, Ph, Hz) 208/230V, 1Ph, 60Hz
Voltage Range (V) 187-253

Electrical

Minimum circuit ampacity (Outdoor) (A) 40.0
Max.fuse (Outdoor) (A) 50.0
Connection wiring 14AWG*2 Stranded, shielded

Cooling

Capacity (Btu/h) 47000(15000~48000)
Power Input (W) 5731(815~5700)
Current (A) 24.95(3.54~25.3)
SEER2 (Btu/W) 15.6
EER2 (Btu/W) 8.2

Heating

Capacity (Btu/h) 50000(11000~55000)
Power Input (W) 4652(830~5700)
Current (A) 21.20(3.60~26)
HSPF2-4 (Btu/W) 9.4
HSPF2-5 (Btu/W) 7.7
COP W/W 3.15
Heat at 17F(H32) (Btu/h) 36000
Heat at 5F(H42) (Btu/h) 46000
COP at 5F(H42) W/W 1.90

REFRIGERANT PIPE DATA

Throttle type	Indoor unit	EEV for cooling
	Outdoor unit	EEV for heating
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	169.31
Refrigerant precharge	(ft)	25.0
	(m)	7.5
Additional charge for each ft	(oz/ft)	0.69
Additional charge for each m	(g/m)	65.0
Liquid side/ Gas side(indoor)	(inch)	3/8" / 3/4"
	(mm)	9.52/19
Liquid side/ Gas side(outdoor)	(inch)	3/8" / 3/4"
	(mm)	9.52/19
Max. pipe length	(ft)	213.3
	(m)	65.0
Max. difference in level	(ft)	98.4
	(m)	30.0
Connection method		Flared
Indoor(cooling)	(Deg. °F)	60~90
	(Deg. °C)	16~32
Indoor(heating)	(Deg. °F)	32~86
	(Deg. °C)	0~30
Outdoor(cooling)	(Deg. °F)	5~122
	(Deg. °C)	-15~50
Outdoor(heating)	(Deg. °F)	-22~75
	(Deg. °C)	-30~24

INDOOR UNIT DATA

Indoor fan motor

Model ZKFD-560-8-1-1
Qty 1
Input (W) /
Output (W) /
RLA (A) 6.0
Speed(Hi/Mi/Lo) (r/min) /

Airflow & Noise level

Indoor airflow (Hi/Med/Lo) (No duct) (CFM) 1470.59/1282.35/1094.12/905.88
Indoor noise level (Hi/Med/Lo) [dB(A)] 50/47/43.5

Dehumidification

(L/H) 4.96

Indoor unit

Dimension (WxDxH) (inch) 21.02x21.02x49.02
(mm) 534x534x1245
Packing(WxDxH) (inch) 26.57x24.41x52.56
(mm) 675x620x1335
Net/Gross weight (lbs.) 130.51/156.31
(kg) 59.2/70.9

Accessories

Adaptor for welding(3/4") Qty 1
Adaptor for welding(3/8") Qty 1

OUTDOOR UNIT DATA

Compressor

Type ROTARY
Model EAPQ420D1UMUA
Brand GMCC
Capacity (Btu/h) 44015
Input (W) 3565 ±3%
Rated current (RLA) (A) 33
Refrigerant oil/oil charge (ml) 1460±15mlESTER OIL VG74

Outdoor fan motor

Model ZKFN-85-8-22-5
Qty 2
Input (W) 126.0
Output (W) 85
RLA (A) 1.2
Speed (r/min) 850/750/650

Airflow & Noise level

Outdoor airflow (Max.) (CFM) 4412
Outdoor noise level [dB(A)] 64.0

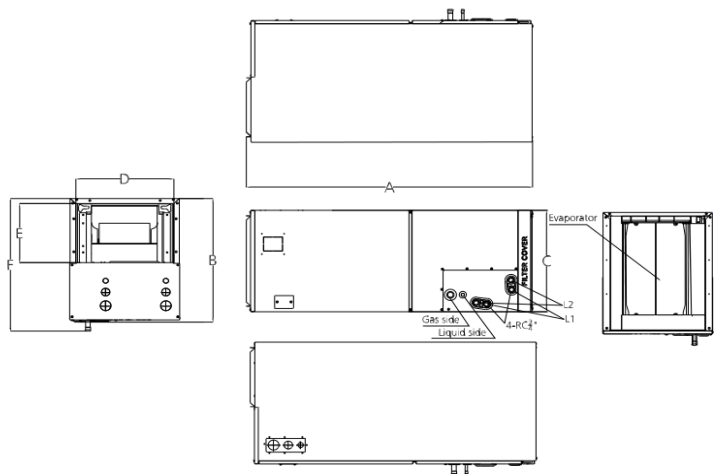
Outdoor unit

Dimension (W×D×H) (inch) 37.48x16.34x52.48
(mm) 952x415x1333
Packing (W×D×H) (inch) 43.11x19.49x58.27
(mm) 1095x495x1480
Net/ Gross weight (lbs.) 220.24/248.90
(kg) 99.9/112.9

Accessories

Adaptor for welding(3/4") Qty 1
Adaptor for welding(3/8") Qty 1

Indoor unit dimension



Model	Unit	Dimensions(mm)						Drain hole	
		A	B	C	D	E	F	L1	L2
18k~24k	mm	1143	534	445	400	260	585	Main drain	Overflow drain
	inch	45	21	17-1/2	15-3/4	10-1/4	23		
30k~48k	mm	1245	534	534	490	260	585		
	inch	49	21	21	19-5/16	10-1/4	23		
60k	mm	1346	534	622	580	260	585		
	inch	53	21	24-1/2	22-7/8	10-1/4	23		

Outdoor unit dimension

