



SUBMITTAL DATA SHEET

AHU Heat Pump System

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

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

Set Code
Indoor unit code 22023110000891
Outdoor unit code 22023110000272
22023116000141

Set Model
Indoor unit model BMAH4816
Outdoor unit model BMAH4816C

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) 42.0
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
Design pressure	Outdoor unit	EEV for heating
Refrigerant Type	(PSIG)	550/340
Refrigerant charge		R410A
Refrigerant precharge	oz	169.31
	(ft)	25.0
Additional charge for each ft	(m)	7.5
Additional charge for each m	(oz/ft)	0.69
	(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) /

Air flow & Noise level

Indoor air flow (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
(inch) 26.57x24.41x52.56
Packing(WxDxH) (mm) 675x620x1335
(lbs.) 130.51/156.31
Net/Gross weight (kg) 59.27/70.9

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±15ml ESTER 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

Air flow & Noise level

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

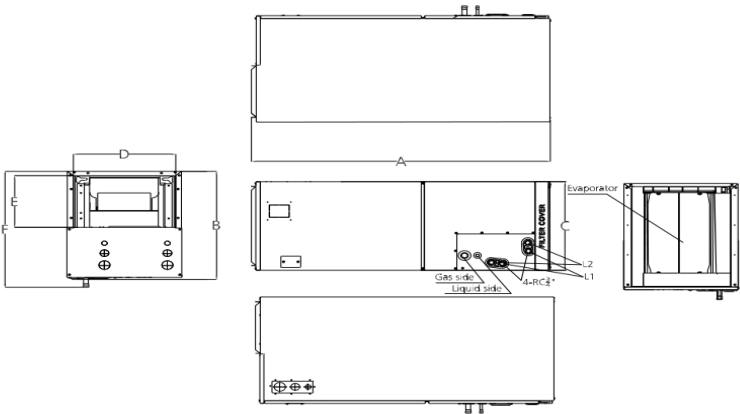
Outdoor unit

Dimension (WxDxH) (inch) 37.48x16.34x52.48
(mm) 952x415x1333
(inch) 43.11x19.49x58.27
Packing (WxDxH) (mm) 1095x495x1480
(lbs.) 220.24/248.90
Net/ Gross weight (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

