



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 22023116000141

Set Model
Indoor unit model BMAH4816
Outdoor unit model BMAH4816C



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 (Communication IDU-ODU)		18AWG*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		
EER2	(Btu/W)	15.6
	(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

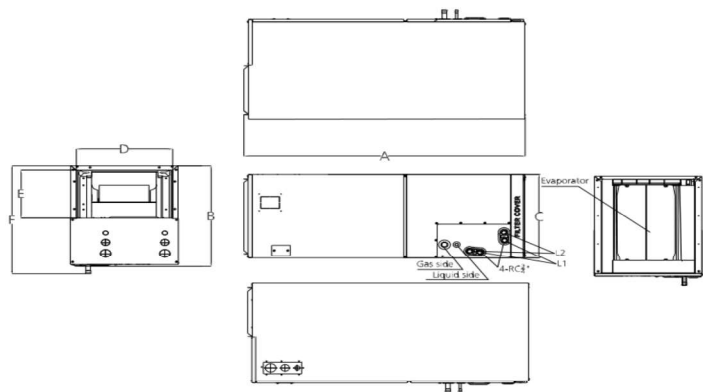
INDOOR UNIT DATA

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)	/
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
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±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
Packing (WxDxH)	(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

