

<b>AHU Heat Pump System</b>	
Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____

<b>Set Code</b>	22023110000848
Indoor unit code	22023110000251
Outdoor unit code	22023116000164
<b>Set Model</b>	BMAH3618
Indoor unit model	BMAH3618I
Outdoor unit model	BMAH3618C
<b>Certified</b>	AHRI UL



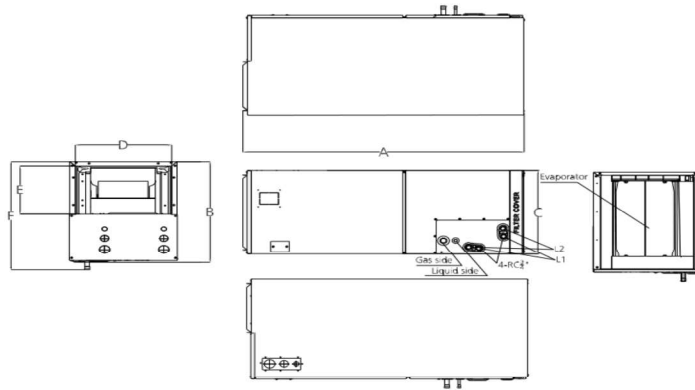
SYSTEM PERFORMANCE DATA			
<b>Power supply</b>			
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph, 60Hz	
Voltage Range	(V)	187-253	
<b>Electrical</b>			
Minimum circuit ampacity(Outdoor)	(A)	41.0	
Max.fuse(Outdoor)	(A)	50.0	
Connection wiring (Communication IDU-ODU)		18AWG*2 Stranded, shielded	
<b>Cooling</b>			
Capacity	(Btu/h)	36000(13000~47400)	
Power Input	(W)	3673(462~5700)	
Current	(A)	15.97(3.53~25)	
SEER2	(Btu/W)	16.0	
EER2	(Btu/W)	10.0	
<b>Heating</b>			
Capacity	(Btu/h)	40000(11000~57200)	
Power Input	(W)	3448(593~5700)	
Current	(A)	15(4.34~25)	
HSPF2-4	(Btu/W)	9.5	
HSPF2-5	(Btu/W)	7.8	
COP	W/W	3.36	
Heat at 17F(H32)	(Btu/h)	30500	
Heat at 5F(H42)	(Btu/h)	34400	
COP at 5F(H42)	W/W	1.97	

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	165.79	
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			
<b>Indoor fan motor</b>			
Model		ZKFD-375-8-1-1	
Qty		1	
Input	(W)	/	
Output	(W)	/	
RLA	(A)	4.0	
Speed(Hi/Mi/Lo)	(r/min)	/	
<b>Air flow &amp; Noise level</b>			
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	1188.24/1082.35/970.59/864.71	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	45/43/41	
<b>Dehumidification</b>			
	(LH)	3.49	
<b>Indoor unit</b>			
Dimension (WxDxH)	(inch)	21.02x21.02x49.02	
	(mm)	534x534x1245	
Packing(WxDxH)	(inch)	26.57x24.41x52.56	
	(mm)	675x620x1335	
Net/Gross weight	(lbs.)	129.19/155.64	
	(kg)	58.6/70.6	
<b>Accessories</b>			
Adaptor for welding(3/4")	Qty	1	
Adaptor for welding(3/8")	Qty	1	

OUTDOOR UNIT DATA			
<b>Compressor</b>			
Type		ROTARY	
Model		EAPQ420D1UMUA	
Brand		GMCC	
Capacity	(Btu/h)	44015	
Input	(W)	3565 ±3%	
Rated current (RLA)	(A)	32	
Refrigerant oil/oil charge	(ml)	1460±15mlESTER OIL VG74	
<b>Outdoor fan motor</b>			
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	
<b>Air flow &amp; Noise level</b>			
Outdoor air flow (Max.)	(CFM)	4500	
Outdoor noise level	[dB(A)]	64.0	
<b>Outdoor unit</b>			
Dimension (WxDxH)	(inch)	37.48x16.34x52.48	
	(mm)	952x415x1333	
Packing (WxDxH)	(inch)	43.11x19.49x58.27	
	(mm)	1095x495x1480	
Net/ Gross weight	(lbs.)	227.07/255.73	
	(kg)	103/116	
<b>Accessories</b>			
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

