

AHU Heat Pump System

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

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

Set Code 22023110000848
 Indoor unit code 22023111000251
 Outdoor unit code 22023116000164

Set Model BMAH3618
 Indoor unit model BMAH3618I
 Outdoor unit model BMAH3618C

Certified
AHRI

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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) 41.0
 Max. fuse (Outdoor) (A) 50.0
 Connection wiring 14AWG*2 Stranded, shielded

Cooling

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

Heating

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
Design pressure	Outdoor unit	EEV for heating
	(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
Indoor fan motor

Model ZKFD-375-8-1-1
 Qty 1
 Input (W) /
 Output (W) /
 RLA (A) 4.0
 Speed(Hi/Mi/Lo) (r/min) /

Air flow & Noise level

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

Dehumidification

(L/H) 3.49

Indoor unit

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

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) 32
 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) 4500
 Outdoor noise level [dB(A)] 64.0

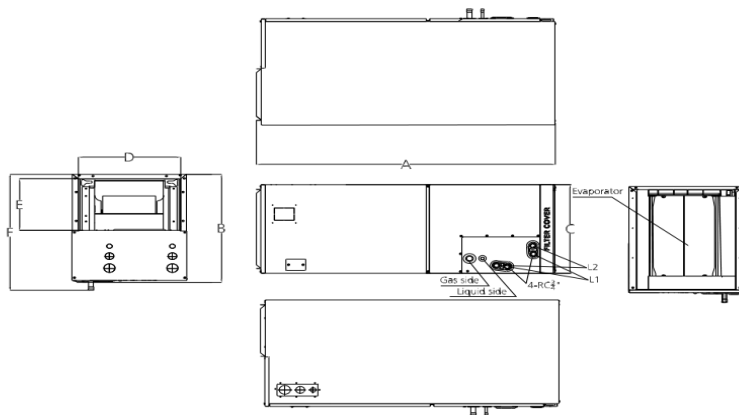
Outdoor unit

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.) 227.07/255.73
 (kg) 103/116

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

