



## SUBMITTAL DATA SHEET

Duct Heat Pump System	
Location: _____	Approval: _____
Engineer: _____	Date: _____
Submitted to: _____	Construction: _____
Submitted by: _____	Unit #: _____
Reference: _____	Drawing #: _____

<b>Set Code</b>	22023010005843
Indoor unit code	22023011003416
Outdoor unit code	22022516001922
<b>Set Model</b>	
Indoor unit model	MIU-A48LD-2
Outdoor unit model	MOU-A48LH-2
<b>Certified</b>	
AHRI	
CSA	



### 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)	42.0
Max.fuse(Outdoor)	(A)	50.0
Connection wiring		14AWG*2 Stranded, shielded
<b>Cooling</b>		
Capacity	(Btu/h)	48000(10300~53100)
Power Input	(W)	5840(1070~6020)
Current	(A)	26(6.58~26.29)
SEER2	(Btu/W)	14.3
EER2	(Btu/W)	8.2
<b>Heating</b>		
Capacity	(Btu/h)	52000(11500~63600)
Power Input	(W)	4650(690~5570)
Current	(A)	20.5(4.78~24.3)
HSPF2-4	(Btu/W)	10.3
HSPF2-5	(Btu/W)	8.4
COP	W/W	3.28
Heat at 17F(H32)	(Btu/h)	39500
Heat at 5F(H42)	(Btu/h)	46000
COP at 5F(H42)	W/W	2.02

### REFRIGERANT PIPE DATA

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV+Throttle valve
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	148.00
Refrigerant precharge	(ft)	25.0
	(m)	7.5
Additional charge for each ft	(oz/ft)	0.32
Additional charge for each m	(g/m)	30.0
Liquid side/ Gas side(indoor)	(inch)	3/8"/5/8"
	(mm)	9.52/15.9
Liquid side/ Gas side(outdoor)	(inch)	3/8"/5/8"
	(mm)	9.52/15.9
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)	62~90
	(Deg. °C)	17~32
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

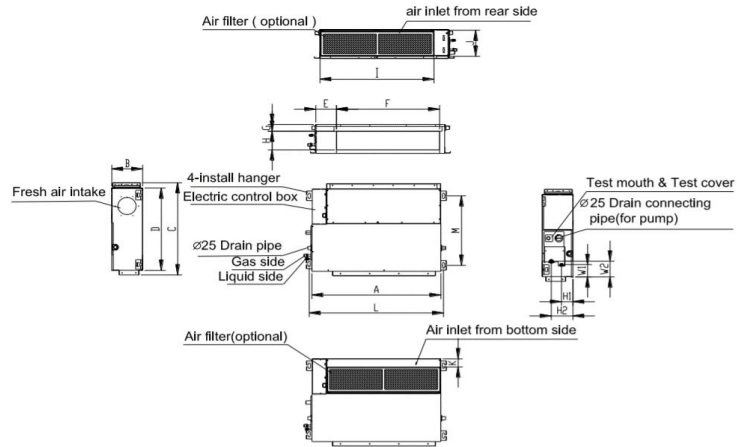
### INDOOR UNIT DATA

<b>Indoor fan motor</b>		
Model		ZKFN-560-8-1-1
Qty		1
Input	(W)	560.00
Output	(W)	560.0
RLA	(A)	2.5
Speed(Hi/Mi/Lo)	(r/min)	940/820/740
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	529.41/1529.41/1117.65/735.29
Indoor noise level (Hi/Med/Lo)	[dB(A)]	54.5/50.5/47.5
<b>Dehumidification</b>	(L/H)	4.87
<b>Indoor unit</b>		
Dimension (WxDxH)	(inch)	47.24x34.41x11.81
	(mm)	1200x874x300
Packing(WxDxH)	(inch)	55.31x36.02x14.37
	(mm)	1405x915x365
Net/Gross weight	(lbs.)	119.71/141.76
	(kg)	54.3/64.3

### OUTDOOR UNIT DATA

<b>Compressor</b>		
Type		ROTARY
Model		EAPQ420D1UMUA
Brand		GMCC
Capacity	(Btu/h)	44015
Input	(W)	3565
Rated current (RLA)	(A)	33
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)	900/850/800/750
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	4500
Outdoor noise level	[dB(A)]	65.0
<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

**Indoor unit dimension(internal pump)**



Model (KBTu/h)	unit	A	B	C	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2
9/12	mm	700	200	506	450	137	537	30	152	599	186	50	741	360	84	140	84	84
	inch	27.6	7.9	19.9	17.7	5.4	21.1	1.2	6.0	23.6	7.3	2.0	29.2	14.2	3.3	5.5	3.3	3.3
18	mm	880	210	674	600	140	706	50	136	782	190	40	920	508	78	148	88	112
	inch	34.6	8.3	26.5	23.6	5.5	27.8	2.0	5.4	30.8	7.5	1.6	36.2	20.0	3.1	5.8	3.5	4.4
24	mm	1100	249	774	700	140	926	50	175	1001	228	5	1140	598	80	150	130	155
	inch	43.3	9.8	30.5	27.6	5.5	36.5	2.0	6.9	39.4	9.0	0.2	44.9	23.5	3.1	5.9	5.1	6.1
36	mm	1360	249	774	700	140	1186	50	175	1261	228	5	1400	598	80	150	130	155
	inch	53.5	9.8	30.5	27.6	5.5	46.7	2.0	6.9	49.6	9.0	0.2	55.1	23.5	3.1	5.9	5.1	6.1
48	mm	1200	300	874	800	123	1044	50	227	1101	280	5	1240	697	80	150	185	210
	inch	47.2	11.8	34.4	31.5	4.8	41.1	2.0	8.9	43.3	11.0	0.2	48.8	27.4	3.1	5.9	7.3	8.3

**Outdoor unit dimension**

