

AHU Heat Pump System

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

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

Set Code 22023110000895
 Indoor unit code 22023111000250
 Outdoor unit code 22023116000081

Set Model
 Indoor unit model ACiQ-24-AHB
 Outdoor unit model ACiQ-24-EHPB

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)	19.0
Max.fuse(Outdoor)	(A)	30.0
Connection wiring		14AWG*2 Stranded, shielded
Cooling		
Capacity	(Btu/h)	24000(7500~26000)
Power Input	(W)	2280(280~3450)
Current	(A)	10.1(2.4~18)
SEER	(Btu/W)	19.4
SEER2	(Btu/W)	17.0
EER	(Btu/W)	11.3
EER2	(Btu/W)	10.5
Heating		
Capacity	(Btu/h)	26000(5600~30000)
Power Input	(W)	2240(350~3000)
Current	(A)	9.9(2.7~16)
HSPF	(Btu/W)	11.3
HSPF2-4	(Btu/W)	9.2
HSPF2-5	(Btu/W)	7.6
COP	W/W	3.40
Heat at 17F(H32)	(Btu/h)	21000
Heat at 5F(H42)	(Btu/h)	19400
COP at 5F(H42)	W/W	2.10

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	74.08
	(ft)	25.0
Refrigerant precharge	(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" / 5/8"
	(mm)	9.52/16
Max. pipe length	(ft)	164.0
	(m)	50.0
Max. difference in level	(ft)	82.0
	(m)	25.0
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)	5~75
	(Deg. °C)	-15~24

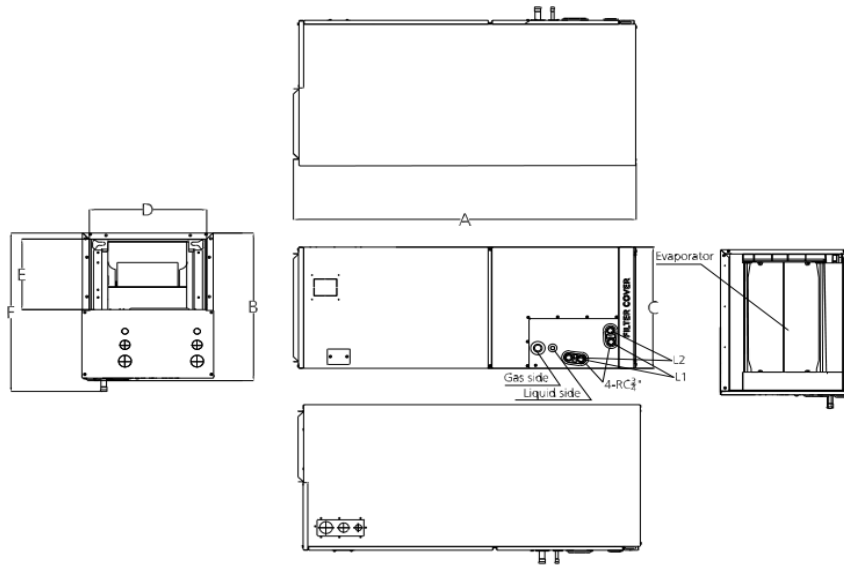
INDOOR UNIT DATA

Indoor fan motor		
Model		ZKFD-250-8-1
Qty		1
Input	(W)	/
Output	(W)	/
RLA	(A)	26408.9
Speed(Hi/Mi/Lo)	(r/min)	/
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	823.53/758.82/694.12/629.41
Indoor noise level (Hi/Med/Lo)	[dB(A)]	42/40/37
Dehumidification	(L/H)	2.38
Indoor unit		
Dimension (WxDxH)	(inch)	21.02x17.52x45.00
	(mm)	534x445x1143
Packing(WxDxH)	(inch)	26.57x20.87x48.62
	(mm)	675x530x1235
Net/Gross weight	(lbs.)	105.60/127.43
	(kg)	47.9/57.8
Accessories		
Adaptor for welding(3/4")	Qty	1
Adaptor for welding(3/8")	Qty	1

OUTDOOR UNIT DATA

Compressor		
Type		Twin-ROTARY
Model		KTM240D57UMT
Brand		GMCC
Capacity	(Btu/h)	26409
Input	(W)	2085
Rated current (RLA)	(A)	14
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 670
Outdoor fan motor		
Model		ZKFN-80-8-3
Qty		1
Input	(W)	/
Output	(W)	80
RLA	(A)	1.0
Speed	(r/min)	810/720
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	1765
Outdoor noise level	[dB(A)]	60.0
Outdoor unit		
Dimension (WxDxH)	(inch)	35.04x13.46x26.50
	(mm)	890x342x673
Packing (WxDxH)	(inch)	39.17x15.67x29.13
	(mm)	995x398x740
Net/ Gross weight	(lbs.)	102.29/109.13
	(kg)	46.4/49.5
Accessories		
Adaptor for welding(3/4")	Qty	1
Adaptor for welding(3/8")	Qty	1
Adaptor (5/8" to 3/4")	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

