

AHU Heat Pump System

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

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

Set Code	#REF!	
Indoor unit code	#REF!	CH-M24AHU
Outdoor unit code	#REF!	CH-HPR24-230V0
Set Model		
Certified	AHRU	
	UL	
		


SYSTEM PERFORMANCE DATA

Power supply			
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60	
Voltage Range	(V)	187-253	
Electrical			
Minimum circuit ampacity	(A)	25.0	
Max. fuse	(A)	35.0	
Connection wiring		14AWG*2 Stranded, shielded	
Cooling			
Rated Capacity	(Btu/h)	23000	
Capacity Range	(Btu/h)	7500-26000	
Power Input	(W)	1840	
Rated current	(A)	9	
SEER	(Btu/W)	21	
EEER	(Btu/Wh)	12.5	
Heating at 47F			
Rated Capacity	(Btu/h)	26000	
Capacity Range	(Btu/h)	5600-29000	
Power Input	(W)	2130	
Rated current	(A)	10	
HSPF4	(Btu/W)	11.6	
HSPF5	(Btu/W)	9.5	
COP	W/W	3.58	

REFRIGERANT PIPE DATA

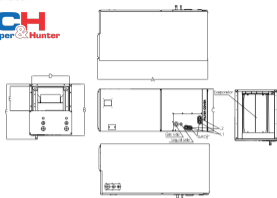
Throttle type	Indoor unit	
	Outdoor unit	EXV
Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/91.7
Refrigerant precharge	(lb)	25.0
	(m)	7.5
Additional charge for each ft	(oz/ft)	0.32
	(g/m)	30
Liquid side/ Gas side	(inch)	3/8" / 5/8"
	(mm)	9.52/15.9
Max. pipe length	(ft)	164.0
	(m)	50
Max. difference in level	(ft)	82.0
	(m)	25
Connection method		Flared
Indoor(cooling/ heating)	(Deg. F°)	60--90/32--88
	(Deg. C°)	16--32/0--30
Outdoor(cooling/heating)	(Deg. F°)	-30-122/-30-75
	(Deg. C°)	-30--50/-30--24
Application area	(sq. ft)	344.44~505.90
	(m ²)	32~47

INDOOR UNIT DATA

Indoor fan motor			
Type			Centrifugal
Model			ZKFD-250-8-1
Qty			1
Input	(W)		67.8
RLA	(A)		--
LRA	(A)		--
Winding Resistance	(Ω)		--
Capacitor	(μF)		--
Speed(Hi/Mi/Lo)	(r/min)		--
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) (F)	(CFM)	758.82/694.12/629.41	
Indoor noise level (Hi/Med/Lc	[dB(A)]	41/39.5/38	
Dehumidification	(Pint/H)	--	
Indoor unit			
Dimension (WxDxH)	(inch)	21.02x17.52x45.00	
	(mm)	534x445x1143	
Packing(WxDxH)	(inch)	26.57x20.87x48.62	
	(mm)	675x530x1235	
Net/Gross weight	(lbs.)	48.4/57.7	
	(kg)	106.70/127.21	

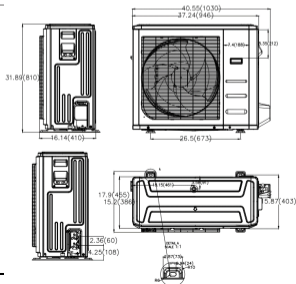
OUTDOOR UNIT DATA

Compressor			
Type			DUAL ROTARY
Model			KTM240D43UKT
Brand			GMCC
Capacity	(Btu/h)		6.38/02 AM
Input	(W)		2045
Rated current (RLA)	(A)		--
Refrigerant oil charge	(ml)		VG74/620
Outdoor fan motor			
Model			ZKFN-120-8-2
Qty			1
Input	(W)		150.0
RLA	(A)		--
Speed	(r/min)		950/800/500
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)		2235
Outdoor noise level	[dB(A)]		62
Outdoor unit			
Dimension (W*D*H)	(inch)	37.24x15.14x31.89	
	(mm)	946x410x810	
Packing (W*D*H)	(inch)	42.91x19.69x34.84	
	(mm)	1090x500x885	
Net/ Gross weight	(lbs.)	134.48/144.40	
	(kg)	61/65.5	



Model	Unit	Dimension(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





24K

