

**AHU Heat Pump System**

Location: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Submitted to: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_  
 Reference: \_\_\_\_\_

Approval: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Construction: \_\_\_\_\_  
 Unit #: \_\_\_\_\_  
 Drawing #: \_\_\_\_\_

<b>Set Code</b>	#REF!	CHM24AHU
Indoor unit code	#REF!	CHES24-230VO
Outdoor unit code	#REF!	
Outdoor unit model	#REF!	
<b>Certified</b>	AHRU	
	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	(A)	22.0	
Max.fuse	(A)	30.0	
Connection wiring	14AWG*2	Stranded, shielded	
<b>Cooling</b>			
Rated Capacity	(Btu/h)	24000	
Capacity Range	(Btu/h)	11800-29000	
Power input	(W)	1910	
Rated current	(A)	9.0	
SEER	(Btu/W)	20.5	
EEER	(Btu/W)	12.5	
<b>Heating at 47F</b>			
Rated Capacity	(Btu/h)	25000	
Capacity Range	(Btu/h)	7900-27000	
Power input	(W)	2100	
Rated current	(A)	10.2	
HSPF4	(Btu/W)	10	
HSPF5	(Btu/W)	8	
COP	W/W	3.49	

**REFRIGERANT PIPE DATA**

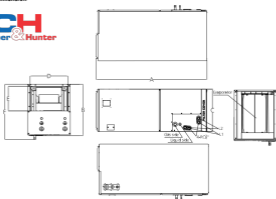
Throttle type	Indoor unit	Outdoor unit	FXV
Design pressure	(PSIG)		550/340
Refrigerant Type	(Oz)		R410A/82.89
Refrigerant precharge	(ft)		25.0
	(m)		7.5
Additional charge for each ft	(oz/ft)		0.32
	(g/m)		30
Liquid side/ Gas side	(inch)		3/8" / 5/8"
	(mm)		9.52/15.9
Max. pipe length	(ft)		164.0
	(m)		50
Max. difference in level	(ft)		82.0
	(m)		25
Connection method			Flared
Indoor(cooling/ heating)	(Deg. F)		60--90/32--89
	(Deg. C)		16--32/0--30
Outdoor(cooling/heating)	(Deg. F)		-13-122 / -13-75
	(Deg. C)		-25--50 / -25--24
Application area	(sq.ft)		344.44--505.90
	(m2)		32--47

**INDOOR UNIT DATA**

<b>Indoor fan motor</b>			
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)		—
<b>Air flow &amp; Noise level</b>			
Indoor air flow (Hi/Med/Lo) (β)	(CFM)		758.82/694.12/629.41
Indoor noise level (Hi/Med/Lo)	[dB(A)]		42/40/38.0
Dehumidification	(Pint/H)		—
<b>Indoor unit</b>			
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

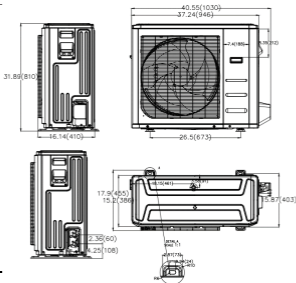
**OUTDOOR UNIT DATA**

<b>Compressor</b>			
Type			DUAL ROTARY
Model			KTM240D43UKT
Brand			GMCC
Capacity	(Btu/h)		24293
Input	(W)		2045
Rated current (RLA)	(A)		—
Refrigerant oil/oil charge	(ml)		VG74/620
<b>Outdoor fan motor</b>			
Model			ZKFN-120-8-2
Qty			1
Input	(W)		150.0
RLA	(A)		—
Speed	(r/min)		900/810/450/360
<b>Air flow &amp; Noise level</b>			
Outdoor air flow (Max.)	(CFM)		2235
Outdoor noise level	[dB(A)]		60
<b>Outdoor unit</b>			
Dimension (WxDxH)	(inch)		37.24x15.14x31.89
	(mm)		946x410x810
Packing (WxDxH)	(inch)		42.91x19.69x34.84
	(mm)		1090x500x885
Net/ Gross weight	(lbs.)		124.78/134.92
	(kg)		56.6/61.2



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



## 24K

