

**AHU Heat Pump System**

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

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

Set Code	#REF1	CH-38AHU
Indoor unit code	#REF1	CH-N38LCU-230V0
Outdoor unit code	#REF1	
Certified	AHRI	
	UL	


**SYSTEM PERFORMANCE DATA**

<b>Power supply</b>			
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60	
Voltage Range	(V)	187-253	
<b>Electrical</b>			
Minimum circuit ampacity	(A)	30.0	
Max. fuse	(A)	45.0	
Connection wiring		14AWG*2 Stranded, shielded	
<b>Cooling</b>			
Rated Capacity	(Btu/h)	36000	
Capacity Range	(Btu/h)	11600-41000	
Power Input	(W)	4180	
Rated current	(A)	18	
SEER	(Btu/W)	17	
EEER	(Btu/W)	8.8	
<b>Heating at 47F</b>			
Rated Capacity	(Btu/h)	38000	
Capacity Range	(Btu/h)	9200-43000	
Power Input	(W)	3500	
Rated current	(A)	15.6	
HSPF4	(Btu/W)	11.3	
HSPF5	(Btu/W)	9.6	
COP	W/W	3.35	

**REFRIGERANT PIPE DATA**

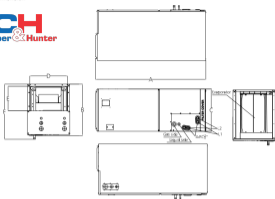
Throttle type	Indoor unit	Outdoor unit	EVV
Design pressure	(PSIG)		550/340
Refrigerant Type	(Oz)		R410A/112.9
Refrigerant precharge	(lb)		25.0
	(m)		7.5
Additional charge for each ft	(oz/ft)		0.32
	(g/m)		30
Liquid side/ Gas side	(inch)	3/8" / 5/8"	
	(mm)	9.52/15.9	
Max. pipe length	(ft)	213.0	
	(m)	65	
Max. difference in level	(ft)	98.0	
	(m)	30	
Connection method			Flared
Indoor(cooling/heating)	(Deg. F)	60-90/32-85	
	(Deg. C)	16-32/0-30	
Outdoor(cooling/heating)	(Deg. F)	5-122/5-75	
	(Deg. C)	-15-50/-15-24	
Application area	(sq ft)	516.67-753.47	
	(m2)	48-70	

**INDOOR UNIT DATA**

<b>Indoor fan motor</b>			
Type			Centrifugal
Model			ZKFD-375-8-1-1
Qty			1
Input	(W)		168.0
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) (P)	(CFM)	1082.35/970.59/864.71	
Indoor noise level (Hi/Med/Lo)	(dB(A))	50/45/42.5	
<b>Dehumidification</b>			
<b>Indoor unit</b>			
Dimension (WxDxH)	(inch)	21.02x21.02x49.02	
	(mm)	534x534x1245	
Packing(WxDxH)	(inch)	26.57x24.41x52.56	
	(mm)	675x620x1335	
Net/Gross weight	(lb.)	58.8/69.4	
	(kg)	129.63/153.00	

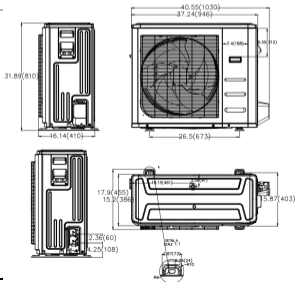
**OUTDOOR UNIT DATA**

<b>Compressor</b>			
Type			ROTARY
Model			KTF310D43UMT
Brand			GMCC
Capacity	(Btu/h)		34154
Input	(W)		2765
Rated current (RLA)	(A)		-
Refrigerant oil fill charge	(ml)		VG74/1000
<b>Outdoor fan motor</b>			
Model			ZKFN-120-8-2
Qty			1
Input	(W)		150.00
RLA	(A)		---
Speed	(r/min)		950/800/500
<b>Air flow &amp; Noise level</b>			
Outdoor air flow (Max.)	(CFM)		3000.00
Outdoor noise level	(dB(A))		65
<b>Outdoor unit</b>			
Dimension (WxDxH)	(inch)	37.24x16.14x31.89	
	(mm)	946x410x810	
Packing (WxDxH)	(inch)	42.91x19.69x34.84	
	(mm)	1090x500x885	
Net/ Gross weight	(lb.)	155.42/166.23	
	(kg)	70.5/75.4	



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		

Outdoor



**36K**