

**AHU Heat Pump System**

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

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

Set Code #REF!  
 Indoor unit code #REF! CH-60AHU  
 Outdoor unit code #REF! CH-N80LCU-230V0


**SYSTEM PERFORMANCE DATA**

Power supply			
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph, 60Hz	
Voltage Range	(V)	187-253	
Electrical			
Minimum circuit ampacity	(A)	39.0	
Max.fuse	(A)	50.0	
Connection wiring		14AWG*2 Stranded, shielded	
Cooling			
Rated Capacity	(Btu/h)	57000	
Capacity Range	(Btu/h)	11000-60000	
Power Input	(W)	5700	
Rated current	(A)	25.5	
SEER	(Btu/W)	17	
EER	(Btu/W)	10	
Heating at 47F			
Rated Capacity	(Btu/h)	60000	
Capacity Range	(Btu/h)	12000-60400	
Power Input	(W)	5420	
Rated current	(A)	24	
HSPF4	(Btu/W)	10.4	
HSPF5	(Btu/W)	8.3	
COP	W/W	3.24	

**REFRIGERANT PIPE DATA**

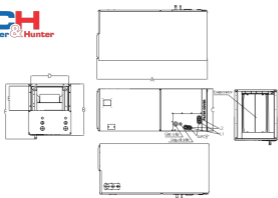
Throttle type	Indoor unit	Outdoor unit	EVU
Design pressure	(PSIG)		550/340
Refrigerant Type	(Oz)	R410A/169.32	
Refrigerant precharge	(ft)		25.0
	(m)		7.5
Additional charge for each ft	(oz/ft)		0.32
	(g/m)		30
Liquid side/ Gas side	(inch)	3/8" / 7/8"	
	(mm)	9.52 / 22	
Max. pipe length	(ft)		213.0
	(m)		65.0
Max. difference in level	(ft)		98.0
	(m)		30.0
Connection method			Flared
Indoor(cooling/ heating)	(Deg. °F)		60-90/32-88
	(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)		818.06-1194.79
	(m2)		76-111


**INDOOR UNIT DATA**

Indoor fan motor			
Type		Centrifugal	
Model		ZKFD-750-8-1-1	
Qty		1	
Input	(W)	286.5	
RLA	(A)	--	
LRA	(A)	--	
Winding Resistance	(Ω)	--	
Capacitor	(uF)	--	
Speed(Hi/Mi/Lo)	(r/min)	--	
Air flow & Noise level			
Indoor air flow (Hi/Med/Lo) †	(CFM)	1582.35/1358.82/1135.29	
Indoor noise level (Hi/Med/Lz	[dB(A)]	51/47.5/45.5	
Dehumidification			
	(Pint/H)	--	
Indoor unit			
Dimension (WxDxH)	(inch)	21.02x24.49x52.99	
	(mm)	534x622x1346	
Packing(WxDxH)	(inch)	27.95x26.77x56.50	
	(mm)	710x680x1435	
Net/Gross weight	(lbs.)	74.4/86.1	
	(kg)	164.02/189.82	

**OUTDOOR UNIT DATA**

Compressor			
Type		ROTARY	
Model		KTQ420D1UMJ	
Brand		GMCC	
Capacity	(Btu/h)	9.36:00 AM	
Input	(W)	3700	
Rated current (RLA)	(A)	12:00:00 PM	
Refrigerant oil/oil charge	(ml)	VG74/1400	
Outdoor fan motor			
Model		ZKFN-85-8-22-5	
Qty		2	
Input	(W)	126.0	
RLA	(A)	--	
Speed	(r/min)	850/750/650	
Air flow & Noise level			
Outdoor air flow (Max.)	(CFM)	4411.76	
Outdoor noise level	[dB(A)]	65	
Outdoor unit			
Dimension (WxDxH)	(inch)	37.48x16.34x52.48	
	(mm)	952x415x1333	
Packing (WxDxH)	(inch)	43.11x19.49x58.27	
	(mm)	1095x495x1480	
Net/ Gross weight	(lbs.)	217.15/248.24	
	(kg)	98.5/112.5	



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

