

**AHU Heat Pump System**

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

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

<b>Set Code</b>	#REF1	CH-48AHU
Indoor unit code	#REF1	CH-N48LCU-230V0
Outdoor unit code	#REF1	
<b>Certified</b>	AHRU	
	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)	36.5
Max.fuse	(A)	50.0
Connection wiring		14AWG*2 Stranded, shielded
<b>Cooling</b>		
Rated Capacity	(Btu/h)	48000
Capacity Range	(Btu/h)	11836-51920
Power Input	(W)	5580
Rated current	(A)	24.50
SEER	(Btu/W)	16.2
EER	(Btu/W)	8.6
<b>Heating at 47F</b>		
Rated Capacity	(Btu/h)	60000
Capacity Range	(Btu/h)	11908-63000
Power Input	(W)	5900
Rated current	(A)	26.5
HSPF4	(Btu/W)	10.8
HSPF5	(Btu/W)	9
COP	W/W	3.03

**REFRIGERANT PIPE DATA**

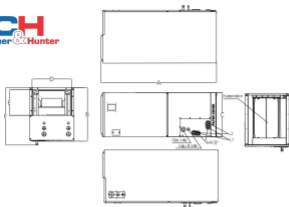
Throttle type	Indoor unit	FOV
	Outdoor unit	
Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/158.7
Refrigerant precharge	(ft)	25.0
	(m)	7.5
Additional charge for each ft	(oz/ft)	0.32
	(g/m)	30
Liquid side/ Gas side	(inch)	3/8" / 5/8"
	(mm)	9.52/15.9
Max. pipe length	(ft)	213.0
	(m)	
Max. difference in level	(ft)	98.0
	(m)	30
Connection method		Flared
Indoor(cooling/ heating)	(Deg. °F)	60-90/32-60
	(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)	688.69-1011.81
	(m2)	64-94

**INDOOR UNIT DATA**

<b>Indoor fan motor</b>		
Type		Centrifugal
Model		ZKFD-560-8-1-1
Qty		1
Input	(W)	235.0
RLA	(A)	---
LRA	(A)	---
Winding Resistance	(Ω)	---
Capacitor	(μF)	---
Speed(Hi/Mid/Lo)	(r/min)	---
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (h)	(CFM)	1282.35/1094.12/905.88
Indoor noise level (Hi/Med/Lo)	(dB(A))	51/48/45
Dehumidification	(Pint/H)	---
<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	(lbs.)	60.1/70.7
	(kg)	132.50/155.87

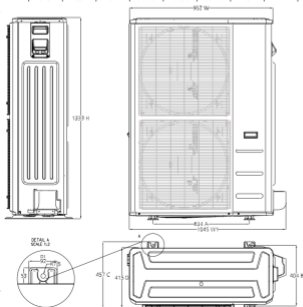
**OUTDOOR UNIT DATA**

<b>Compressor</b>		
Type		ROTARY
Model		KTQ42001UMU
Brand		GMCC
Capacity	(Btu/h)	46744
Input	(W)	3700
Rated current (RLA)	(A)	---
Refrigerant oil/oil charge	(ml)	VG74/1400
<b>Outdoor fan motor</b>		
Model		ZKFN-85-8-22-5
Qty		2
Input	(W)	126.00
RLA	(A)	---
Speed	(r/min)	850/750/650/550
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	4500
Outdoor noise level	(dB(A))	63.5
<b>Outdoor unit</b>		
Dimension (WxDxH)	(inch)	37.48x16.34x52.48
	(mm)	952x415x1333
Packing (WxDxH)	(inch)	43.11x19.49x58.27
	(mm)	1095x495x1480
Net/ Gross weight	(lbs.)	219.14/249.12
	(kg)	99.4/113



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



## 48K

