

**Wall Mounted Heat Pump System**

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

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

**Set Model**  
 Indoor unit model CH-09MCT1W-230V/I  
 Outdoor unit model CH-E509-230V/O

**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(Outdoor)	(A)	13.0
Max. fuse(Outdoor)	(A)	15.0
Connection wiring		14*4 AWG
<b>Cooling</b>		
Capacity	(Btu/h)	9000(4400-11200)
Power input	(W)	652(320-980)
Current	(A)	3.10(1.51-4.35)
SEER2	(Btu/W)	22.5
EER2	(Btu/W)	13.0
<b>Heating</b>		
Capacity	(Btu/h)	11000(3800-12400)
Power input	(W)	938(300-1100)
Current	(A)	4.26(1.45-4.90)
HSPF2-4	(Btu/W)	11.5
HSPF2-5	(Btu/W)	9.1
COP	W/W	3.44
Heat at 17F(H32)	(Btu/h)	8000
Heat at 5F(H42)	(Btu/h)	7700
COP at 5F(H42)	W/W	2.34

**INDOOR UNIT DATA**

<b>Indoor fan motor</b>		
Model		ZKFN-30-8-43
Qty		1.00
Input	(W)	/
Output	(W)	30.0
RLA	(A)	0.80
Speed(Hi/Mi/Lo)	(r/min)	1024/944/784
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/L0) (No duc)	(CFM)	341.18/294.12/258.82/235.29
Indoor noise level (Hi/Med/L0)	[dB(A)]	38/36/33
Dehumidification	(L/H)	1.02
<b>Indoor unit</b>		
Dimension (WxDxH)	(inch)	50.31x13.19x8.98
	(mm)	1278x338x228
Packing(WxDxH)	(inch)	57.60x22.45x22.64
	(mm)	1463x571x575
Net/Gross weight	(lbs.)	43.87/81.35
	(kg)	19.9/36.9

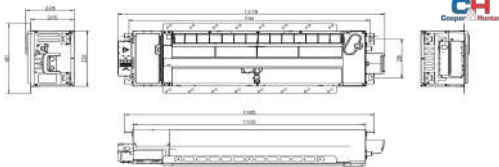
**REFRIGERANT PIPE DATA**

Throttle type	Indoor unit	N/A
	Outdoor unit	EXV
Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	38.10
Refrigerant precharge	(ft)	25.0
	(m)	7.5
Additional charge for each ft	(oz/ft)	0.16
Additional charge for each m	(g/m)	15.0
Liquid side/ Gas side(Indoor)	(inch)	1/4" / 3/8"
	(mm)	6.35/9.52
Liquid side/ Gas side(outdoor)	(inch)	1/4" / 3/8"
	(mm)	6.35/9.52
Max. pipe length	(ft)	82.0
	(m)	25.0
Max. difference in level	(ft)	32.8
	(m)	10.0
Connection method		Flared
Indoor(cooling)	(Deg. F)	60~90
	(Deg. C)	16~32
Indoor(heating)	(Deg. F)	32~86
	(Deg. C)	0~30
Outdoor(cooling)	(Deg. F)	-13~122
	(Deg. C)	-25~50
Outdoor(heating)	(Deg. F)	-13~75
	(Deg. C)	-25~24

**OUTDOOR UNIT DATA**

<b>Compressor</b>		
Type		ROTARY
Model		KSK103D33UE23
Brand		GMCC
Capacity	(Btu/h)	11106
Input	(W)	828
Rated current (RLA)	(A)	6.4
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 310
<b>Outdoor fan motor</b>		
Model		ZKFN-34-10-1
Qty		1
Input	(W)	/
Output	(W)	34.00
RLA	(A)	0.40
Speed	(r/min)	800/600
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	1294.1
Outdoor noise level	[dB(A)]	54.0
<b>Outdoor unit</b>		
Dimension (WxDxH)	(inch)	30.12x11.93x21.85
	(mm)	765x303x555
Packing (WxDxH)	(inch)	34.92x13.27x24.02
	(mm)	887x337x610
Net/ Gross weight	(lbs.)	63.71/68.00
	(kg)	28.9/31.3

Indoor unit dimension



Outdoor unit dimension

