

**Wall Mounted Heat Pump System**

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

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

CH-18MCT1W-230V1  
CH-E518-230V0

**Set Model**  
 Indoor unit model CH-18MCT1W-230V1  
 Outdoor unit model CH-E518-230V0

**Certified**


**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)	18.0
Max. fuse (Outdoor)	(A)	30.0
Connection wiring		14'4 AWG
<b>Cooling</b>		
Capacity	(Btu/h)	18000(3200-18100)
Power Input	(W)	1440(415-1690)
Current	(A)	6.4(2-7.4)
SEER2	(Btu/W)	21.8
EER2	(Btu/W)	12.5
<b>Heating</b>		
Capacity	(Btu/h)	19000(5300-21500)
Power Input	(W)	1690(530-1960)
Current	(A)	7.6(2.6-8.8)
HSPF2.4	(Btu/W)	10.7
HSPF2.5	(Btu/W)	7.6
COP	W/W	3.30
Heat at 17F(H32)	(Btu/h)	12200
Heat at 5F(H42)	(Btu/h)	13100
COP at 5F(H42)	W/W	2.30

**REFRIGERANT PIPE DATA**

Throttle type	Indoor unit	Outdoor unit	N/A
			EXV+Throttle valve
Design pressure	(PSI G)		550/340
Refrigerant Type			R410A
Refrigerant charge	oz		56.44
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" / 1/2"
	(mm)		6.35/12.7
Liquid side/ Gas side (outdoor)	(inch)		1/4" / 1/2"
	(mm)		6.35/12.7
Max. pipe length	(ft)		98.4
	(m)		30.0
Max. difference in level	(ft)		65.6
	(m)		20.0
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

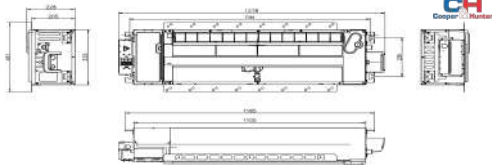
**INDOOR UNIT DATA**

<b>Indoor fan motor</b>		
Model		ZKFN-30-8-43
Qty		1.00
Input	(W)	/
Output	(W)	30.0
RLA	(A)	1.50
Speed (Hi/Mi/Lo)	(r/min)	1344/1184/1024
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	400.00/351.76/300.00/207.06
Indoor noise level (Hi/Med/Lo)	(dB(A))	44/41/34
Dehumidification	(L/H)	2.16
<b>Indoor unit</b>		
Dimension (WxDxH)	(inch)	50.31x13.19x8.98
	(mm)	1276x335x226
Packing (WxDxH)	(inch)	57.60x22.48x22.64
	(mm)	1463x571x575
Net/Gross weight	(lbs.)	45.19/82.89
	(kg)	20.9/37.6

**OUTDOOR UNIT DATA**

<b>Compressor</b>		
Type		ROTARY
Model		KSN140D58UF2
Brand		GMCC
Capacity	(Btu/h)	14723
Input	(W)	1090
Rated current (RLA)	(A)	12.0
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 440
<b>Outdoor fan motor</b>		
Model		ZKFN-80-8-3
Qty		1
Input	(W)	/
Output	(W)	80.00
RLA	(A)	0.76
Speed	(r/min)	810/720
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	2058.8
Outdoor noise level	(dB(A))	58.0
<b>Outdoor unit</b>		
Dimension (WxDxH)	(inch)	35.04x13.46x26.50
	(mm)	890x342x673
Packing (WxDxH)	(inch)	39.17x15.67x29.13
	(mm)	995x398x740
Net/ Gross weight	(lbs.)	94.36/100.97
	(kg)	42.8/45.8

Indoor unit dimension



Outdoor unit dimension

