

# SUBMITTAL DATA SHEET



**CH-09MASTWM-230VI / CH-ES09-230VO**

**9,000 BTU/H(208/230V)**

**Wall Mounted Heat Pump System**

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

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

CH-09MASTWM-230VI  
CH-ES09-230VO

**Set Model**  
 Indoor unit model CH-09MASTWM-230VI  
 Outdoor unit model CH-ES09-230VO

**Certified**

AHRI

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**SYSTEM PERFORMANCE DATA**

**Power supply**

Normal Operational Voltage (V, Ph, Hz)		208/230, 1, 60
Voltage Range (V)		187-253

**Electrical**

Minimum circuit ampacity (A)	(A)	13.0
Max.fuse (A)	(A)	15.0

**Cooling**

Rated Capacity (Btu/h)		9000
Capacity Range (Btu/h)		2500-11900
Power Input (Max) (W)		600
Rated current (A)		2.61
SEER (Btu/W)		25.5
EER (Btu/W)		15

**Heating at 47F**

Rated Capacity (Btu/h)		10000
Capacity Range (Btu/h)		3400-13000
Power Input (Max) (W)		742
Rated current (A)		3.23
HSPF4 (Btu/W)		12.2
HSPF5 (Btu/W)		10.0
COP	W/W	3.95

**Heating at 17F**

Max Capacity (Btu/h)		9500
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**INDOOR UNIT DATA**

**Indoor fan motor**

Type		Cross-Flow
Model		ZKFP-20-8-6-21
Qty		1
Input (W)		50.0
RLA (A)		0.25
LRA (A)		---
Winding Resistance (Ω)		---
Capacitor (μF)		---
Speed(Hi/Mi/Lo) (r/min)		1100/850/700

**Air flow & Noise level**

Indoor air flow (Hi/Med/Lo) (l) (CFM)		335.29/229.41/176.47
Indoor noise level (Hi/Med/Lo) (dB(A))		38/34/23

**Dehumidification (Pint/H)**

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**Indoor unit**

Dimension (WxDxH) (inch)		33.66x9.09x11.69
	(mm)	855x231x297
Packing(WxDxH) (inch)		36.22x12.20x14.57
	(mm)	920x310x370
Net/Gross weight (lbs.)		22.71/28.88
	(kg)	10.3/13.1

**OUTDOOR UNIT DATA**

**Compressor**

Type		KSK103D33UEZ3
Model		ROTARY
Brand		GMCC
Capacity (Btu/h)		6944 / 11107
Input (W)		325 / 826
Rated current (RLA) (A)		-
Refrigerant oil/oil charge (ml)		-
Throttle		Capillary +EXV

**Outdoor fan motor**

Model		ZKFN-34-10-1
Qty		1
Input (W)		---
RLA (A)		---
Speed (r/min)		800/600

**Air flow & Noise level**

Outdoor air flow (Max.) (CFM)		1294.10
Outdoor noise level (dB(A))		53

**Outdoor unit**

Dimension (WxDxH) (inch)		30.12x11.93x21.85
	(mm)	765x303x555
Packing (WxDxH) (inch)		34.92x13.27x24.02
	(mm)	887x337x610
Net/ Gross weight (lbs.)		63.71/69.00
	(kg)	28.9/31.3

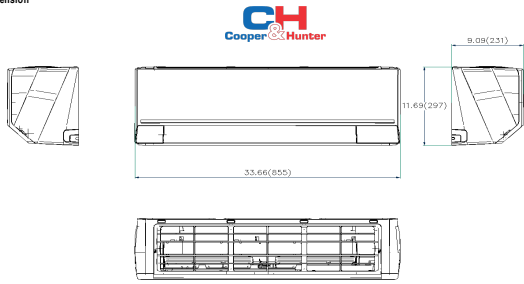
**REFRIGERANT PIPE DATA**

Design pressure (PSIG)		550/340
Refrigerant Type (Oz)		R410A/38.1
Refrigerant precharge (ft)		25.0
	(m)	7.6
Additional charge for each ft (oz/ft)		0.16
	(g/ft)	15
Liquid side/ Gas side (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/ heating) (Deg. °F)		60~90 / 32~86
(Deg. °C)		16~32 / 0~30
Outdoor(cooling/heating) (Deg. °F)		-13-122 / -13-75
(Deg. °C)		-25~50 / -25~24
Application area (sq.ft)		129.17~193.75
	(m2)	12~18

**Indoor unit dimension**



**Outdoor unit dimension**

