

SUBMITTAL DATA SHEET



CH-12MASTWM-230VI / CH-ES12-230VO 12,000 BTU/H(208/230V) Wall Mounted Heat Pump System

Location: _____ Approval: _____
 Engineer: _____ Date: _____
 Submitted to: _____ Construction: _____
 Submitted by: _____ Unit #: _____
 Reference: _____ Drawing #: _____

CH-12MASTWM-230VI
CH-ES12-230VO

Set Model
 Indoor unit model CH-12MASTWM-230VI
 Outdoor unit model CH-ES12-230VO

Certified
 AHRI
 UL



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)		13.0
Max.fuse (A)		15.0
Cooling		
Rated Capacity (Btu/h)		12000
Capacity Range (Btu/h)		3600-13300
Power Input (Max) (W)		880
Rated current (A)		3.82
SEER (Btu/W)		23.2
EER (Btu/W)		13.7

Heating at 47F		
Rated Capacity (Btu/h)		12000
Capacity Range (Btu/h)		4500-13500
Power Input (Max) (W)		945
Rated current (A)		4.1
HSPF4 (Btu/W)		13.2
HSPF5 (Btu/W)		11
COP w/w		3.72
Heating at 17F		
Max Capacity (Btu/h)		10000

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" / 1/2"
	(mm)	6.35/12.7
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)		172.22~247.57
(m2)		16~23

INDOOR UNIT DATA

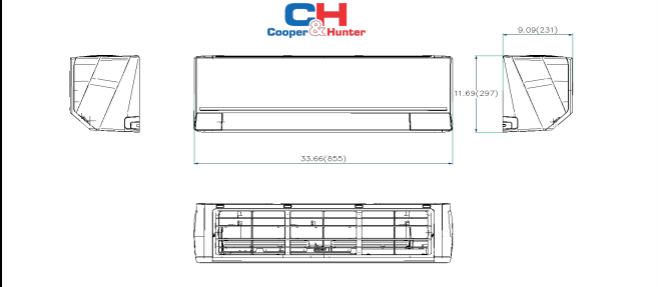
Indoor fan motor		
Type		Cross-Flow
Model		ZKFP-20-8-6-21
Qty		1
Input (W)		50.0
RLA (A)		0.25
LRA (A)		---
Winding Resistance (Ω)		---
Capacitor (uF)		---
Speed(Hi/Mi/Lo) (r/min)		1050/930/870
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (CFM)		335.29/229.41/176.47
Indoor noise level (Hi/Med/Lo) [dB(A)]		36/33.5/22.5
Dehumidification (Pint/H)		

Indoor unit		
Dimension (WxDxH) (inch)		33.66x9.09x11.69
	(mm)	855x231x297
Packing(WxDxH) (inch)		36.22x12.20x14.57
	(mm)	920x310x370
Net/Gross weight (lbs.)		22.93/28.88
	(kg)	10.4/13.1

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)]		53.5
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

Indoor unit dimension



Outdoor unit dimension

