

Console Heat Pump System

 Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

 Approval: _____
 Date: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

Set Model

 Indoor unit model
 Outdoor unit model

 CH-12MMC-230VI
 CH-ES12-230VO

Certified
AHRI

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SYSTEM PERFORMANCE DATA
Power supply

Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph, 60Hz
Voltage Range	(V)	167-253

Electrical

Minimum circuit ampacity(Outdoor)	(A)	13.0
Max.fuse(Outdoor)	(A)	15.0
Connection wiring		14AWG*4

Cooling

Capacity	(Btu/h)	12000(6200-13800)
Power Input	(W)	923(797-1196)
Current	(A)	4.22(3.65-5.36)
SEER2	(Btu/W)	25.0
EER2	(Btu/W)	13.0

Heating

Capacity	(Btu/h)	12000(3800-14600)
Power Input	(W)	901(284-1203)
Current	(A)	4.23(2.21-5.39)
HSPF2-4	(Btu/W)	11.0
HSPF2-5	(Btu/W)	8.2
COP	W/W	3.90
Heat at 17F(H32)	(Btu/h)	9200
Heat at 5F(H42)	(Btu/h)	8300
COP at 5F(H42)	W/W	2.38

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	(lb)	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)	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

INDOOR UNIT DATA
Indoor fan motor

Model		ZKFP-13-8-136-ZKFP-13-8-104
Qty		1+1
Input	(W)	/
Output	(W)	13.0
RLA	(A)	0.50
Speed(Hi/Mi/Lo)	(r/min)	992/884/776

Air flow & Noise level

Indoor air flow (Hi/Med/Lo) (No duct)	(CFM)	441.18/376.47/323.53/264.71
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Indoor noise level (Hi/Med/Lo)	[dB(A)]	40/37/26
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Dehumidification	(L/H)	1.34
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Indoor unit

Dimension (WxDxH)	(inch)	31.26x7.87x24.45
	(mm)	794x200x621
Packing(WxDxH)	(inch)	34.06x11.02x28.31
	(mm)	865x280x719
Net/Gross weight	(lbs.)	32.9/41.45
	(kg)	14.9/18.8

OUTDOOR UNIT DATA
Compressor

Type		ROTARY
Model		KSK103D33U/EZ3
Brand		GMCC
Capacity	(Btu/h)	11106
Input	(W)	826
Rated current (RLA)	(A)	6.4
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 310

Outdoor fan motor

Model		ZKFN-34-10-1
Qty		1
Input	(W)	/
Output	(W)	34.00
RLA	(A)	0.40
Speed	(r/min)	800/600

Air flow & Noise level

Outdoor air flow (Max.)	(CFM)	1294.1
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Outdoor noise level	[dB(A)]	54.0
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Outdoor unit

Dimension (WxDxH)	(inch)	30.12x11.93x21.85
	(mm)	765x303x555
Packing (WxDxH)	(inch)	34.92x13.27x26.02
	(mm)	887x337x610
Net/ Gross weight	(lbs.)	63.7/109.00
	(kg)	28.9/31.3

