SUBMITTAL DATA SHEET

AHU Heat Pump System

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

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

Set Code	CH-M24AHU	
Indoor unit code	CH-ES24-230VO	CH-M24AHU
Outdoor unit code	208/230V,1Ph, 6	CH-ES24-230VO
Outdoor unit model	24000(11800~28000)	
Ceritified	**AHRI**	
	UL	



SYSTEM PERFORMANCE DATA

Power supply		
Normal Operational Voltage	(V, Ph, Hz)	12.5
Voltage Range	(V)	20.5
Electrical		
Minimum circuit ampacity	(A)	22.0
Max.fuse	(A)	30.0
Connection wiring		Optional
Cooling		
Rated Capacity	(Btu/h)	24000
Capacity Range	(Btu/h)	11800~28000
Powrer Input	(W)	2100
Rated current	(A)	10.2
SEER	(Btu/W)	20.5
EER	(Btu/W)	12.5
Heating at 47F		
Rated Capacity	(Btu/h)	25000
Capacity Range	(Btu/h)	7900~27000
Powrer Input	(W)	16000
Rated current	(A)	1.98
HSPF4	(Btu/W)	4
HSPF5	(Btu/W)	15
COP	W/W	0

REFRIGERANT PIPE DATA

Throttle type	Indoor unit Outdoor unit	EXV
Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/82.89
Refrigerant precharge	(ft)	25.0
	(m)	7.5
Additional charge for each ft	(oz/ft)	0.32
	(g/m)	30
Liquid side/ Gas side	(inch)	3/8" / 5/8"
	(mm)	9.52/15.9
Max. pipe length	(ft)	164.0
	(m)	50
Max. difference in level	(ft)	82.0
	(m)	25
Connection method		Flared
Indoor(cooling/ heating)	(Deg. ℉)	60～90/32～86
	(Deg. °C)	16～32/0～30
Outdoor(cooling/heating)	(Deg. ℉)	-13~122 / -13~75
	(Deg. °C)	-25～50 / -25～24
Application area	(sq.ft)	Yes
	(m2)	Yes

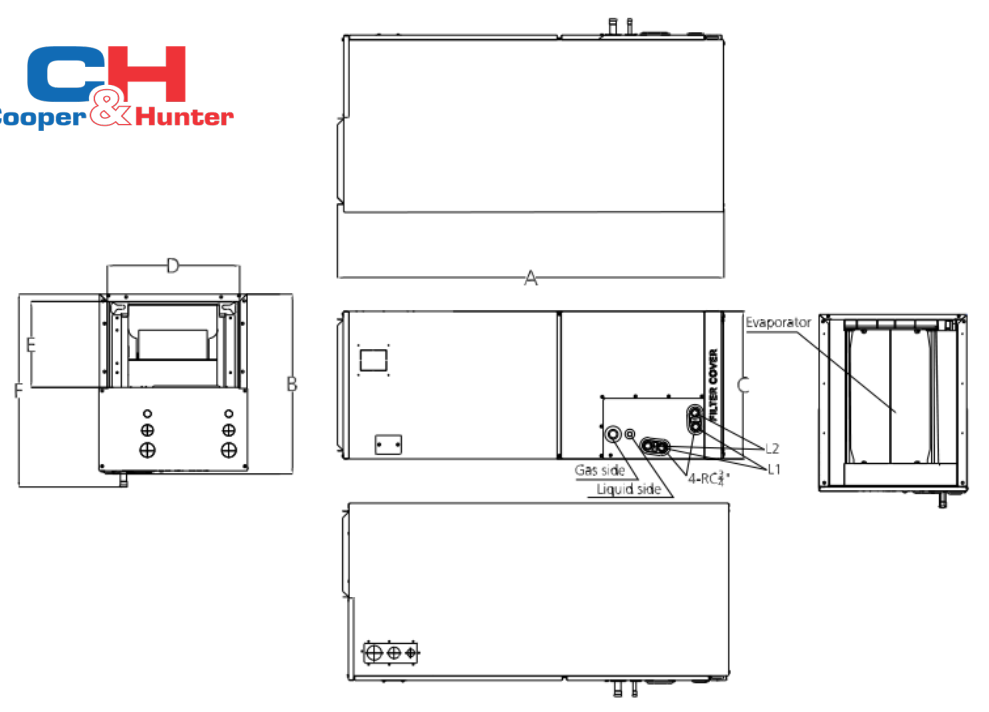
INDOOR UNIT DATA

Indoor fan motor		
Type		Centrifugal
Model		-
Qty		-
Input	(W)	1290/1180/1070
RLA	(A)	---
LRA	(A)	---
Winding Resistance	(Ω)	---
Capacitor	(uF)	---
Speed(Hi/Mi/Lo)	(r/min)	0.10
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (M	(CFM)	0-0.8
Indoor noise level (Hi/Med/Lo	[dB(A)]	0.00
Dehumidification	(Pint/H)	---
Indoor unit		
Dimension (WxDxH)	(inch)	9.52 / 15.9
	(mm)	106.70/127.21
Packing(WxDxH)	(inch)	3/4
	(mm)	3/8 " / 5/8 "
Net/Gross weight	(lbs.)	14AWG*2 Stranded, shielded
	(kg)	0.00

OUTDOOR UNIT DATA

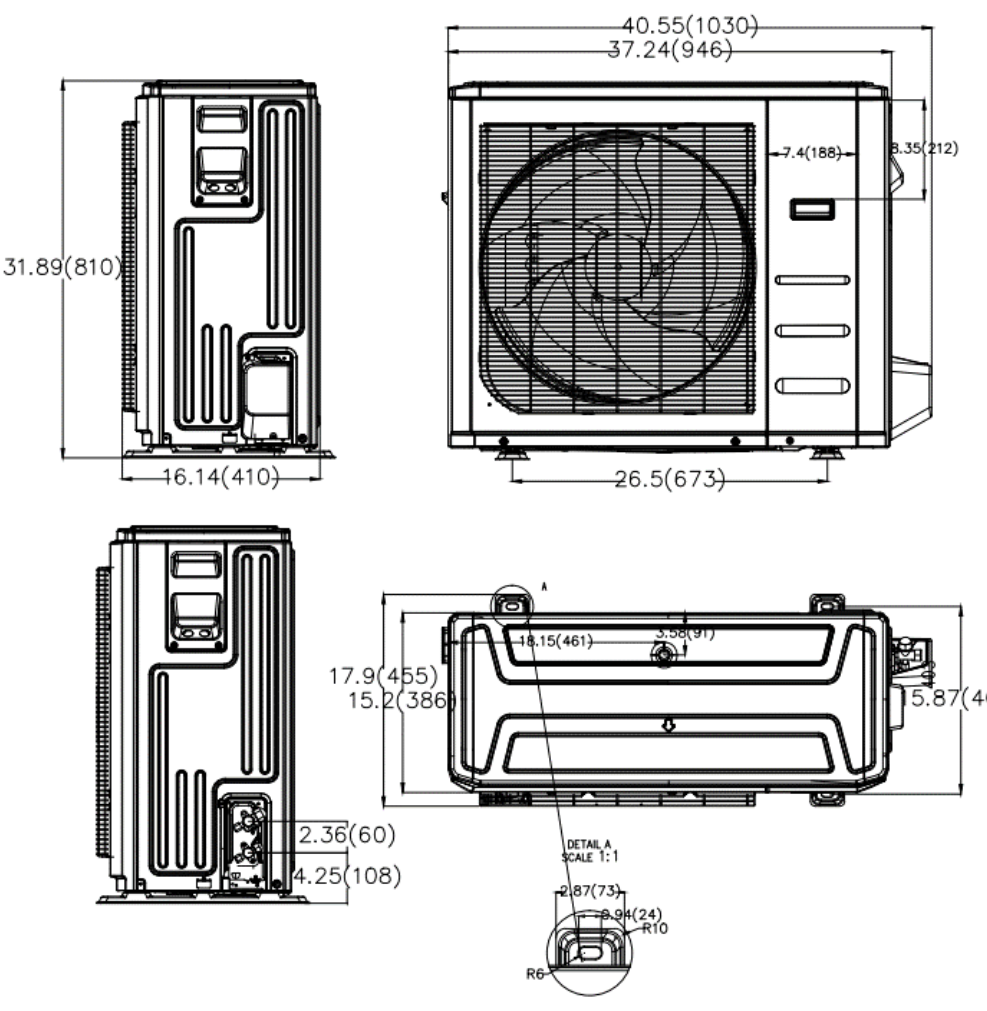
Compressor		
Type		DUAL ROTARY
Model		KTM240D43UKT
Brand		GMCC
Capacity	(Btu/h)	24293
Input	(W)	2045
Rated current (RLA)	(A)	-
Refrigerant oil/oil charge	(ml)	VG74/620
Outdoor fan motor		
Model		ZKFN-120-8-2
Qty		1
Input	(W)	150.0
RLA	(A)	--
Speed	(r/min)	900/810/450/360
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	2235
Outdoor noise level	[dB(A)]	60
Outdoor unit		
Dimension (W×D×H)	(inch)	37.24x16.14x31.89
	(mm)	946x410x810
Packing (W×D×H)	(inch)	42.91x19.69x34.84
	(mm)	1090x500x885
Net/ Gross weight	(lbs.)	124.78/134.92
	(kg)	56.6/61.2

Indoor unit dimension



Model	Unit	Dimensions(mm)						Drain hole	
		A	B	C	D	E	F	L1	L2
18k~24k	mm	1143	534	445	400	260	585	Main drain	Overflow drain
	inch	45	21	17-1/2	15-3/4	10-1/4	23		
30k-48k	mm	1245	534	534	490	260	585		
	inch	49	21	21	19-5/16	10-1/4	23		
60k	mm	1346	534	622	580	260	585		
	inch	53	21	24-1/2	22-7/8	10-1/4	23		

Outdoo



Fan performance

