

CH-M24DTUI/CH-ES24-230VO 24,000 BTU/H(208/230V) Wall Mounted Heat Pump System

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

Set Model
 Indoor unit model CH-M24DTUI
 Outdoor unit model CH-ES24-230VO

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)	22.0
Max.fuse	(A)	30.0
Cooling		
Rated Capacity	(Btu/h)	24000
Capacity Range	(Btu/h)	6100~28200
Power Input (Max)	(W)	1920
Rated current	(A)	8.8
SEER	(Btu/W)	21.5
EER	(Btu/W)	12.6
Heating at 47F		
Rated Capacity	(Btu/h)	24600
Capacity Range	(Btu/h)	11700~33000
Power Input (Max)	(W)	2030
Rated current	(A)	9.3
HSPF4	(Btu/W)	11.2
HSPF5	(Btu/W)	9.5
COP	W/W	3.52
Heating at 17F		
Max Capacity	(Btu/h)	18885

INDOOR UNIT DATA

Indoor fan motor		
Type		Cross-Flow
Model		ZKFN-160-8-1-2
Qty		1
Input	(W)	90.0
RLA	(A)	-
LRA	(A)	-
Winding Resistance	(Ω)	-
Capacitor	(uF)	-
Speed(Hi/Mi/Lo)	(r/min)	880/820/690
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (N)	(CFM)	775.47/693.06/434.88
Indoor noise level (Hi/Med/Lo)	[dB(A)]	44/41/37
Dehumidification		
	(Pint/H)	-
Indoor unit		
Dimension (WxDxH)	(inch)	43x30x10
	(mm)	1100x774x249
Packing(WxDxH)	(inch)	51x32x12.4
	(mm)	1305x805x315
Net/Gross weight	(lbs.)	90.39/106.82
	(kg)	41/48

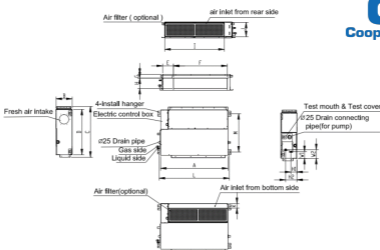
OUTDOOR UNIT DATA

Compressor		
Type		KTM240D43UKT
Model		DUAL ROTARY
Brand		GMCC
Capacity	(Btu/h)	25932.27641
Input	(W)	2045
Rated current (RLA)	(A)	-
Refrigerant oil/oil charge	(ml)	-
Throttle		Capillary +EXV
Outdoor fan motor		
Model		ZKFN-120-8-2
Qty		1
Input	(W)	-
RLA	(A)	-
Speed	(r/min)	900/810/450/360
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	2235.30
Outdoor noise level	[dB(A)]	60
Outdoor unit		
Dimension (WxDxH)	(inch)	37.24x16.14x31.89
	(mm)	946x410x810
Packing (WxDxH)	(inch)	42.91x19.69x34.84
	(mm)	1090x500x885
Net/ Gross weight	(lbs.)	124.78/134.92
	(kg)	56.6/61.2

REFRIGERANT PIPE DATA

Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/82.89
Refrigerant precharge	(ft)	25.0
	(m)	7.6
Additional charge for each ft	(oz/ft)	0.32
	(g/ft)	30
Liquid side/ Gas side	(inch)	3/8" / 5/8"
	(mm)	9.52/15.9
Max. pipe length	(ft)	164.0
	(m)	50.0
Max. difference in level	(ft)	82.0
	(m)	25.0
Connection method		(Flared)
Indoor(cooling/ heating)	(Deg. °F)	63~90 / 32~86
	(Deg. °C)	17~32 / 0~30
Outdoor(cooling/heating)	(Deg. °F)	-22~122 / -22~75
	(Deg. °C)	-30~50 / -30~24
Application area	(sq.ft)	344.44~505.90
	(m2)	32~47

Indoor unit dimension



Model (KBtu/h)	unit	A	B	C	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2
9/12	mm	700	200	506	450	137	537	30	152	599	196	50	741	300	64	143	84	84
	inch	27.6	7.9	19.9	17.7	5.4	21.1	1.2	6.0	23.6	7.3	2.0	29.2	14.2	3.3	5.5	3.3	3.3
18	mm	880	210	674	600	140	708	50	136	762	190	40	920	508	78	148	88	112
	inch	34.6	8.3	26.5	23.6	5.5	27.8	2.0	5.4	30.8	7.5	1.6	36.2	20.0	3.1	5.8	3.5	4.4
24	mm	1100	240	774	700	140	820	50	175	1001	228	5	1140	598	80	150	130	155
	inch	43.3	9.8	30.5	27.6	5.5	32.5	2.0	6.9	39.4	9.0	0.2	44.9	23.5	3.1	5.9	5.1	6.1
36	mm	1380	240	774	700	140	1186	50	175	1261	228	5	1430	598	80	150	130	155
	inch	53.5	9.8	30.5	27.6	5.5	46.7	2.0	6.9	49.8	9.0	0.2	56.1	23.5	3.1	5.9	5.1	6.1
48	mm	1290	300	874	800	123	1044	50	227	1101	280	5	1240	697	80	150	185	210
	inch	47.2	11.8	34.4	31.5	4.8	41.1	2.0	8.9	43.3	11.0	0.2	48.8	27.4	3.1	5.9	7.3	8.3

Outdoor unit dimension

