


SUBMITTAL DATA SHEET


ComfortStar®

CPA-24B/CZP24CD(O)	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: CPA-24B
 Outdoor unit model: CZP24CD(O)

Certified

AHRI 

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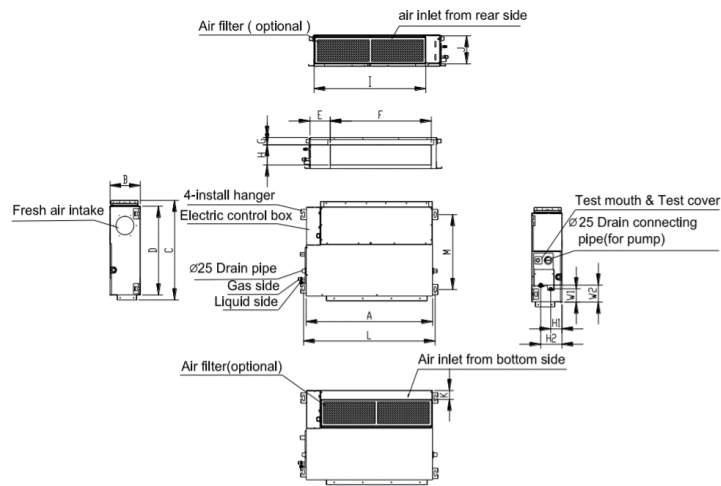
SYSTEM PERFORMANCE DATA			
Power supply			
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60	
Voltage Range	(V)	187-253	
Electrical			
Minimum circuit ampacity	(A)	22.0	
Max.fuse	(A)	30.0	
Connection wiring		14AWG*4 Stranded, unshielded	
Cooling			
Rated Capacity	(Btu/h)	23000	
Capacity Range	(Btu/h)	6100~28200	
Power Input (Max)	(W)	1920	
Rated current	(A)	8.8	
SEER2	(Btu/W)	19.0	
EER2	(Btu/W)	12.5	
Heating at 47F			
Rated Capacity	(Btu/h)	25000	
Capacity Range	(Btu/h)	11700~33000	
Power Input (Max)	(W)	2030	
Rated current	(A)	9.3	
HSPF2-4	(Btu/W)	11.2	
HSPF2-5	(Btu/W)	8.8	
COP	W/W	3.52	
Heating at 17F			
Max Capacity	(Btu/h)	18885	

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 / -13~75	
	(Deg. °C)	-30~50 / -25~24	
Application area	(sq.ft)	344.44~505.90	
	(m2)	32~47	

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) (No duct)	(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.)	90.39/105.82	
	(kg)	41/48	

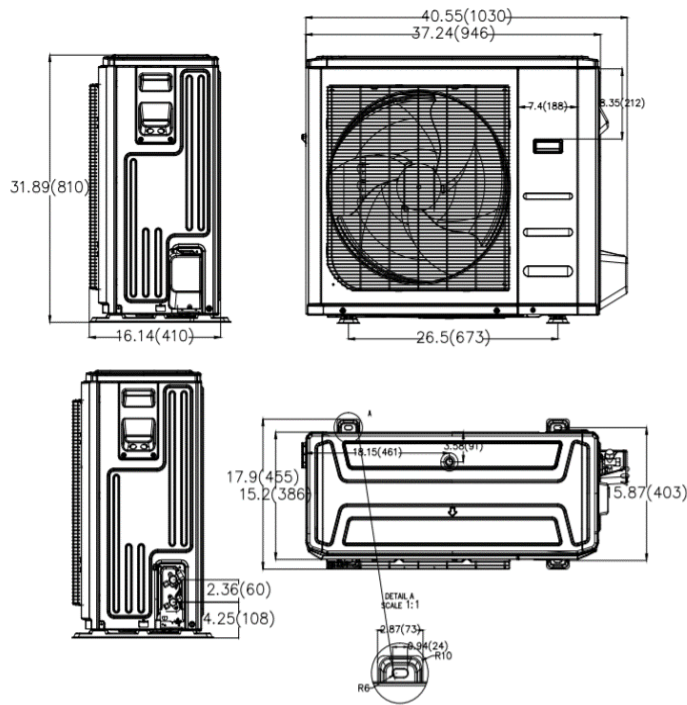
OUTDOOR UNIT DATA			
Compressor			
Type		KTM240D43UKT	
Model		DUAL ROTARY	
Brand		GMCC	
Capacity	(Btu/h)	25932.27641	
Input	(W)	2045	
Rated current (RLA)	(A)	--	
Refrigerant oil/oil charge	(ml)	--	
Throttle		Capillary +EXV	
Outdoor fan motor			
Model		ZKFN-120-8-2	
Qty		1	
Input	(W)	--	
RLA	(A)	--	
Speed	(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	

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	186	50	741	360	84	140	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	706	50	136	782	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	249	774	700	140	926	50	175	1001	228	5	1140	598	80	150	130	155
	inch	43.3	9.8	30.5	27.6	5.5	36.5	2.0	6.9	39.4	9.0	0.2	44.9	23.5	3.1	5.9	5.1	6.1
36	mm	1360	249	774	700	140	1186	50	175	1261	228	5	1400	598	80	150	130	155
	inch	53.5	9.8	30.5	27.6	5.5	46.7	2.0	6.9	49.6	9.0	0.2	55.1	23.5	3.1	5.9	5.1	6.1
48	mm	1200	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



General Features

Wired controller
Weekly-time wired controller(optional)
Central controller
Long distance Alarm and ON/OFF controller
Build-in pump

Extended Performance Data