



## SUBMITTAL DATA SHEET

# ComfortStar®

<b>FPA-24/CHF24CD(O)</b>	<b>24,000 BTU/H(208/230V) Wall Mounted Heat Pump System</b>
Location: _____	Approval: _____
Engineer: _____	Date: _____
Submitted to: _____	Construction: _____
Submitted by: _____	Unit #: _____
Reference: _____	Drawing #: _____

<b>Set Model</b>			
Indoor unit model	FPA-24		
Outdoor unit model	CHF24CD(O)		
<b>Certified</b>	<b>AHRI</b>		
	<b>UL</b>		



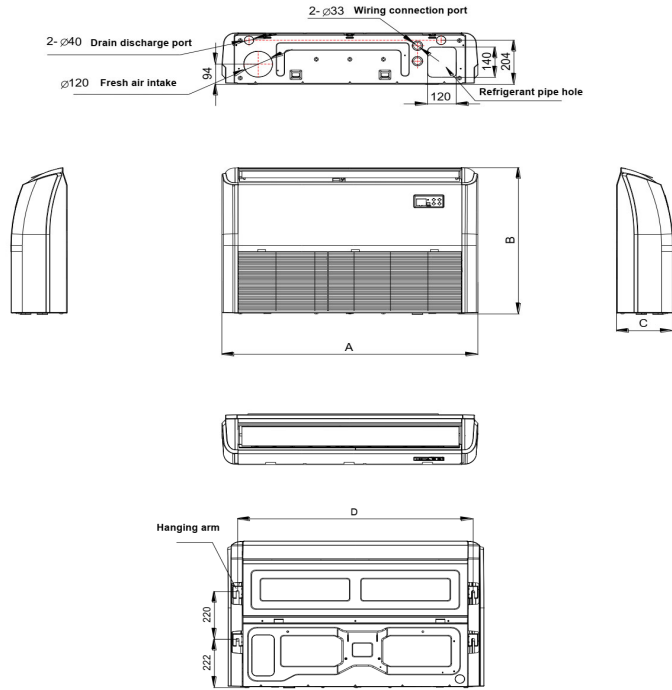
SYSTEM PERFORMANCE DATA			
<b>Power supply</b>			
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60	
Voltage Range	(V)	187-253	
<b>Electrical</b>			
Minimum circuit ampacity	(A)	25.0	
Max.fuse	(A)	35.0	
Connection wiring		14AWG*4 Stranded, unshielded	
<b>Cooling</b>			
Rated Capacity	(Btu/h)	24000	
Capacity Range	(Btu/h)	5400~26800	
Power Input (Max)	(W)	2087	
Rated current	(A)	9.55	
SEER2	(Btu/W)	20.5	
EER2	(Btu/W)	11.7	
<b>Heating at 47F</b>			
Rated Capacity	(Btu/h)	25000	
Capacity Range	(Btu/h)	12500~30500	
Power Input (Max)	(W)	2000	
Rated current	(A)	9.15	
HSPF2-4	(Btu/W)	11.0	
HSPF2-5	(Btu/W)	9.0	
COP	W/W	3.52	
<b>Heating at 17F</b>			
Max Capacity	(Btu/h)	26661	

INDOOR UNIT DATA			
<b>Indoor fan motor</b>			
Type		Cross-Flow	
Model		ZKFN-90-8-1	
Qty		1	
Input	(W)	96.0	
RLA	(A)	--	
LRA	(A)	--	
Winding Resistance	(Ω)	--	
Capacitor	(uF)	--	
Speed(Hi/Mi/Lo)	(r/min)	1350/1260/1120	
<b>Air flow &amp; Noise level</b>			
Indoor air flow (Hi/Med/Lo)	(CFM)	758.82/708.24/598.24	
Indoor noise level (Hi/Med/Lo)	[dB(A)]	51/47.5/42	
<b>Dehumidification</b>			
	(Pint/H)	--	
<b>Indoor unit</b>			
Dimension (WxDxH)	(inch)	42.05x26.57x9.25	
	(mm)	1068x675x235	
Packing(WxDxH)	(inch)	45.08x29.72x12.52	
	(mm)	1145x755x318	
Net/Gross weight	(lbs.)	60.63/72.09	
	(kg)	27.5/32.7	

REFRIGERANT PIPE DATA			
Design pressure	(PSIG)	550/340	
Refrigerant Type	(Oz)	R410A/91.7	
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)	
<b>Indoor(cooling/ heating)</b>			
	(Deg. °F)	60~90 / 32~86	
	(Deg. °C)	16~32 / 0~30	
<b>Outdoor(cooling/heating)</b>			
	(Deg. °F)	-22~122 / -22~75	
	(Deg. °C)	-30~50 / -30 ~ 24	
Application area	(sq.ft)	344.44~505.90	
	(m2)	32~47	

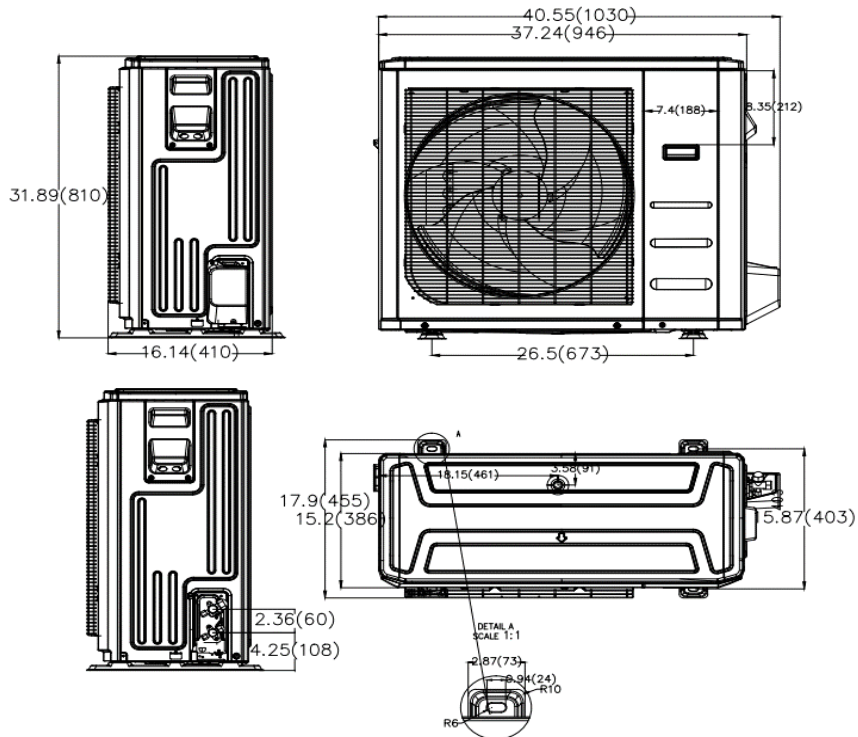
OUTDOOR UNIT DATA			
<b>Compressor</b>			
Type		KTM240D43UKT	
Model		DUAL ROTARY	
Brand		GMCC	
Capacity	(Btu/h)	25932.27641	
Input	(W)	2045	
Rated current (RLA)	(A)	--	
Refrigerant oil/oil charge	(ml)	--	
Throttle		Capillary +EXV	
<b>Outdoor fan motor</b>			
Model		ZKFN-120-8-2	
Qty		1	
Input	(W)	--	
RLA	(A)	--	
Speed	(r/min)	1150/1050/900/850	
<b>Air flow &amp; Noise level</b>			
Outdoor air flow (Max.)	(CFM)	2235.30	
Outdoor noise level	[dB(A)]	62	
<b>Outdoor unit</b>			
Dimension (WxDxH)	(inch)	37.24x16.14x31.89	
	(mm)	946x410x810	
Packing (WxDxH)	(inch)	42.91x19.69x34.84	
	(mm)	1090x500x885	
Net/ Gross weight	(lbs.)	134.48/144.40	
	(kg)	61/65.5	

### Indoor unit dimension



Capacity (Btu/h)	Unit	A	B	C	D
18K / 24K	mm	1068	675	235	983
	inch	42.05	26.57	9.25	38.70
36K	mm	1285	675	235	1200
	inch	50.59	26.57	9.25	47.24
48K/60K	mm	1650	675	235	1565
	inch	64.96	26.57	9.25	61.61

### Outdoor unit dimension



**General Features**

Wired controller(optional)

Weekly-time wired controller(optional)

Central controller

Long distance Alarm and ON/OFF controller(optional)

Build-in pump(optional)

3D airflow

**Extended Performance Data**