


SUBMITTAL DATA SHEET


ComfortStar®

TIP24/CHF24CD(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 TIP24
 Outdoor unit model CHF24CD(O)

Certified

AHRI 

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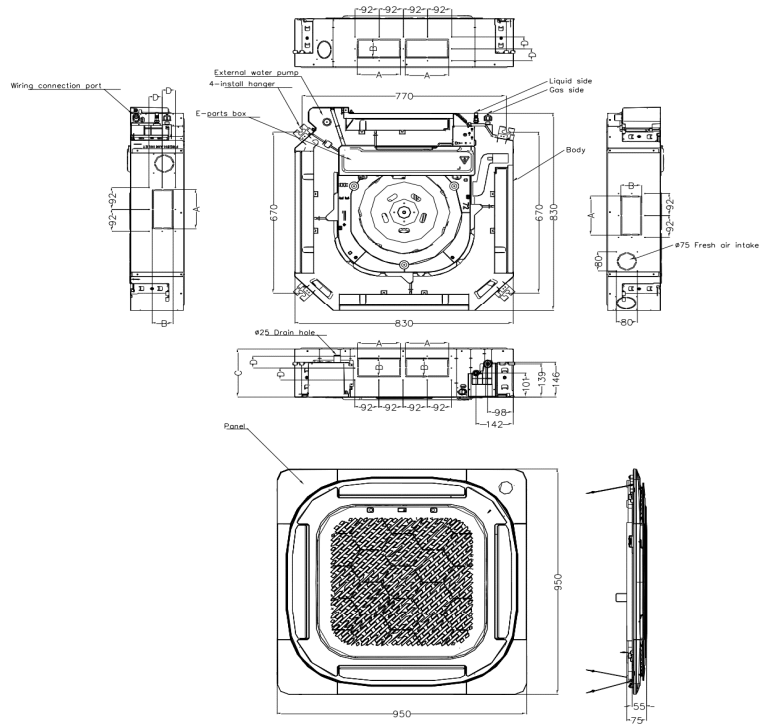
SYSTEM PERFORMANCE DATA		
Power supply		
Normal Operational Voltage (V, Ph, Hz)		208/230, 1, 60
Voltage Range (V)		187-253
Electrical		
Minimum circuit ampacity (A)		25.0
Max.fuse (A)		35.0
Connection wiring		14*4 AWG
Cooling		
Rated Capacity (Btu/h)		24000
Capacity Range (Btu/h)		8000~25000
Power Input (Max) (W)		2182
Rated current (A)		8.5
SEER2 (Btu/W)		20.5
EER2 (Btu/W)		11.0
Heating at 47F		
Rated Capacity (Btu/h)		25000
Capacity Range (Btu/h)		111840~27000
Power Input (Max) (W)		2093
Rated current (A)		9.8
HSPF2-4 (Btu/W)		11.5
HSPF2-5 (Btu/W)		9.2
COP W/W		3.50
Heating at 17F		
Max Capacity (Btu/h)		24100

INDOOR UNIT DATA		
Indoor fan motor		
Type		Cross-Flow
Model		ZKFN-45-8-1
Qty		1
Input (W)		72
RLA (A)		--
LRA (A)		--
Winding Resistance (Ω)		--
Capacitor (uF)		--
Speed(Hi/Mi/Lo) (r/min)		680/624/568/512
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (No duct) (CFM)		705.88/635.29/547.06
Indoor noise level (Hi/Med/Lo) [dB(A)]		48/45.5/43
Dehumidification (Pint/H)		
		--
Indoor unit		
Dimension (WxDxH) (inch)		32.68x32.68x8.07
		(mm) 830x830x205
Packing(WxDxH) (inch)		35.83x35.83x9.84
		(mm) 910x910x250
Net/Gross weight (lbs.)		47.18/55.34
		(kg) 21.4/25.1

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)
Indoor(cooling/ heating) (Deg. F)		60~90 / 32~86
		(Deg. °C) 16~32 / 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

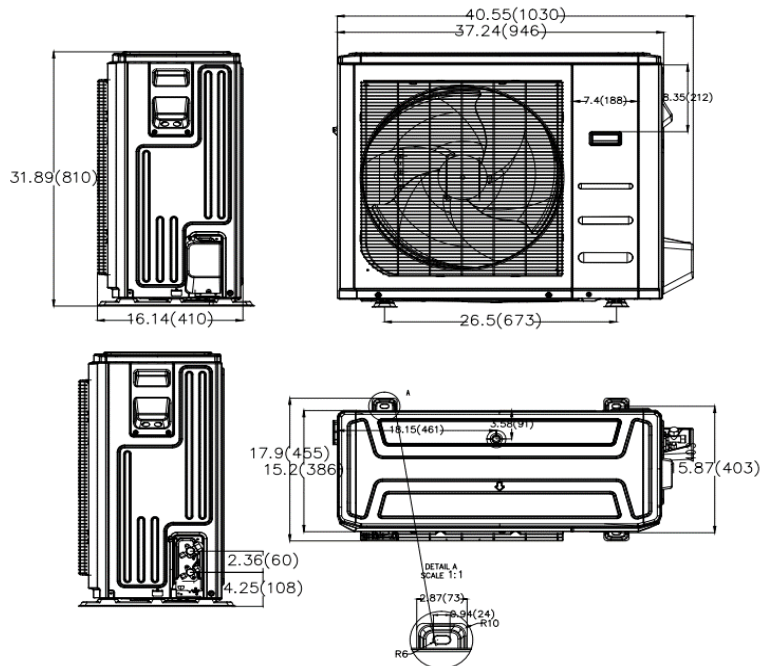
OUTDOOR UNIT DATA		
Compressor		
Type		KTM240D43UKT
Model		DUAL ROTARY
Brand		GMCC
Capacity (Btu/h)		25932.27641
Input (W)		2045
Rated current (RLA) (A)		--
Refrigerant oil/oil charge (ml)		--
Throttle		Capillary +EXV
Outdoor fan motor		
Model		ZKFN-120-8-2
Qty		1
Input (W)		--
RLA (A)		--
Speed (r/min)		1150/1050/900/850
Air flow & Noise level		
Outdoor air flow (Max.) (CFM)		2235.30
Outdoor noise level [dB(A)]		62
Outdoor unit		
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
24K	mm	165	80	205	50
	inch	6.5	3.15	8.07	1.97
36K	mm	165	100	245	60
	inch	6.5	3.64	9.65	2.36
48K	mm	165	100	287	60
	inch	6.5	3.64	11.30	2.36

Outdoor unit dimension



General Features

Wireless Remote with LCD Display
Follow Me
Sleep
Timer
Self Clean
46F Heating
Silent

Extended Performance Data