

PRODUCT SPECIFICATION

COMPRESSOR MODEL

CR36K6-PFZ-XXX

BILL OF MATERIALS

101, 121

Emerson Climate Technologies (India) Limited

Karad Dhebewadi Road

Karad - 415 110

INDIA

Note : Sales compressor drawing number and compressor model name are the same.

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PRODUCT SPECIFICATION**MODEL : CR36K6-PFZ-XXX****A) MODEL DESCRIPTION**

Model Name	CR36K6-PFZ-XXX
Compressor Type	Reciprocating, Connecting Rod Type
Application Group	High Temperature (HBP)
Evaporating Temperature Range	(-) 23.3 °C To 12.8 °C (-) 10 °F To 55 °F
Refrigerant	R-22
Rated Voltage	220/240 V, 50 Hz, 1 Phase
Compressor Cooling	Fan : 400 ft ³ / minute
Typical Application	Air - conditioning, Heat Pump
Certifications & Approvals	UL-984

B) PERFORMANCE SPECIFICATION @ RATED CONDITION

Parameter	Unit	ASRE / T	ARI
Cooling Capacity	Btu / h	30,100	29,300
	kcal / h	7,585	7,383
	W	8,814	8,579
	Nominal HP	- - -	3.0
Input Power	W	2,720	2,720
Input Current	A	13.6	13.6
EER = $\frac{\text{Cooling Capacity}}{\text{Input Power}}$	Btu / W-h	11.07	10.77
	kcal / W-h	2.79	2.71
	W / W	3.24	3.15

Note : Above performance parameters are nominal values & subject to $\pm 5\%$ variation.**C) RATING CONDITIONS**

Parameter	Unit	ASRE / T	ARI
Evaporating Temperature	°C (°F)	7.2 \pm 0.5 (45)	7.2 \pm 0.5 (45)
Condensing Temperature	°C (°F)	54.4 \pm 1 (130)	54.4 \pm 1 (130)
Ambient Temperature	°C (°F)	35 \pm 1 (95)	35 \pm 1 (95)
Sub - cooled Liquid Temperature	°C (°F)	46 \pm 1 (115)	46 \pm 1 (115)
Return Gas Temperature	°C (°F)	35 \pm 1 (95)	18.3 \pm 1 (65)
Test Voltage	V	220	220

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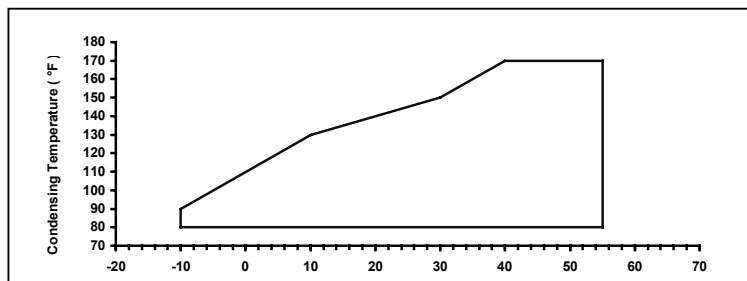
PRODUCT SPECIFICATION**MODEL : CR36K6-PFZ-XXX****D) MECHANICAL SPECIFICATION**

Parameter	Unit	Value
Number of Cylinders	Number	Two (2)
Displacement	cm ³ (inch ³) / rev	59.65 (3.640)
Net Weight	kg	34.9
Approximate Shipping Weight	kg	36.0
Oil Charge	cm ³ (Oz)	1,330 (45)
Oil Type	Refrigeration Grade	Mineral
IPRV (Pressure Differential)	kg / cm ² (psig)	31.65 / 38.68 (450 / 550)
** Crank - Case Heater	W @ V	---

** Recommended only for Heat Pump Application.

E) ELECTRICAL SPECIFICATION

Parameter	Unit	Value
Operating Voltage Range	V	198 To 264
Motor Circuit	---	CSCR
Electrical Accessories	---	--
Start Capacitor(High starting torque, Low starting torque)	μF @ V AC	130 /156 @ 250, 43 / 52 @ 330
Run Capacitor (Standard, Maximum)	μF @ V AC	40 @ 370, 45 @ 370
➤ Relay	GE Make OR Electrica Make OR Equivalent	Potential
➤ Over Load Protector	---	Internal
Lock Rotor Ampere (LRA)	A	85
Maximum Continuous Current (MCC)	A	21.3
Motor Insulation	---	B Class
High Potential Test	(kV / second / mA)	1.85 / 1 / 5.5 ± 0.5

F) OPERATING ENVELOP @ 220 V, 50 Hz, 1 Phase

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PRODUCT SPECIFICATION**MODEL : CR36K6-PFZ-XXX****PERFORMANCE TABLES**

Superheating	11 °C (20 °F)	Voltage	220 V, 50 Hz, 1 Phase
Sub - cooling	8.3 °C (15 °F)	Compressor Cooling	400 ft ³ / minute
Ambient Temperature	35 °C (95 °F)	-	-

A) COOLING CAPACITY (Btu / h)

Condensing Temperature		Evaporating Temperature								
		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°C	(°F)	-10	0	10	20	30	40	45	50	55
37.8	100	6220	10400	15100	20500	26700	33700	37600	41700	46200
43.3	110	-	8200	13100	18400	24400	31200	34900	38900	43300
48.9	120	-	-	11600	16600	22200	28600	32100	35800	39700
54.4	130	-	-	9100	14200	19700	25900	29300	32900	36900
60.0	140	-	-	-	12700	17800	23500	26600	29900	33400

B) INPUT POWER (W)

Condensing Temperature		Evaporating Temperature								
		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°C	(°F)	-10	0	10	20	30	40	45	50	55
37.8	100	1220	1490	1710	1900	2030	2100	2120	2120	2110
43.3	110	-	1500	1740	1980	2160	2280	2320	2350	2360
48.9	120	-	-	1770	2060	2290	2470	2540	2590	2620
54.4	130	-	-	1810	2090	2380	2620	2720	2800	2860
60.0	140	-	-	-	2120	2480	2770	2900	3010	3100

C) INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature								
		-23.3	-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°C	(°F)	-10	0	10	20	30	40	45	50	55
37.8	100	7.9	8.8	9.5	10.2	10.8	11.1	11.2	11.2	11.1
43.3	110	-	8.7	9.7	10.6	11.3	11.9	12.1	12.2	12.2
48.9	120	-	-	9.7	10.8	11.8	12.6	12.9	13.1	13.2
54.4	130	-	-	9.7	11.0	12.2	13.2	13.6	14.0	14.3
60.0	140	-	-	-	11.1	12.6	13.8	14.4	14.9	15.3

Note : 1. Nominal Performance Values (± 5%) based on 24 h of 'run in'. Subject to change without notice.

2. Compressor is intended to be operated in the range of condensing & evaporating temperatures where performance values are specified in above tables.

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