

PRODUCT SPECIFICATION

COMPRESSOR MODEL

KCJ467HAG-BXXX

BILL OF MATERIALS

B220, B221

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 – KCJ467HAG-BXXX****A) MODEL DESCRIPTION**

Model Name	KCJ467HAG-BXXX
Compressor Type	Reciprocating ,Connecting Rod Type
Application Group	High / Medium Temperature (HBP/CBP)
Evaporating Temperature Range	-17.8°C To 12.8°C (0°F To 55°F)
Refrigerant	R-134a
Rated Voltage	230 V, 50 Hz, 1 Phase
Compressor Cooling	Fan : 350 ft ³ / minute
Typical Applications	Water Cooler, Bottle Cooler
Certifications & Approvals	ISI, EN60335-2-34

B) PERFORMANCE SPECIFICATION @ RATED CONDITION

Specification	Unit	HBP	CBP
Cooling Capacity	Btu / h	5600	2830
	kcal / h	1411	713
	Watt	1640	829
	Nominal HP	0.56	0.84
Input Power	W	675	510
Input Current	A	3.85	3.26
EER = $\frac{\text{Cooling Capacity}}{\text{Input Power}}$	Btu / W-h	8.3	5.55
	kcal / W-h	2.09	1.4
	W / W	2.43	1.63

Note – Above performance parameters are nominal values & subject to \pm 5% variation

C) RATING CONDITIONS

Parameter	Unit	HBP @ ASRE/T	CBP @ ASRE/T
Evaporating Temperature	°C (°F)	7.2 (45)	-6.7 (20)
Condensing Temperature	°C (°F)	54.4 (130)	54.4 (130)
Ambient Temperature	°C (°F)	35 (95)	35 (95)
Sub cooled Liquid Temp.	°C (°F)	46.1 (115)	46.1 (115)
Return Gas Temperature	°C (°F)	35 (95)	35 (95)
Test Voltage	V	230	230

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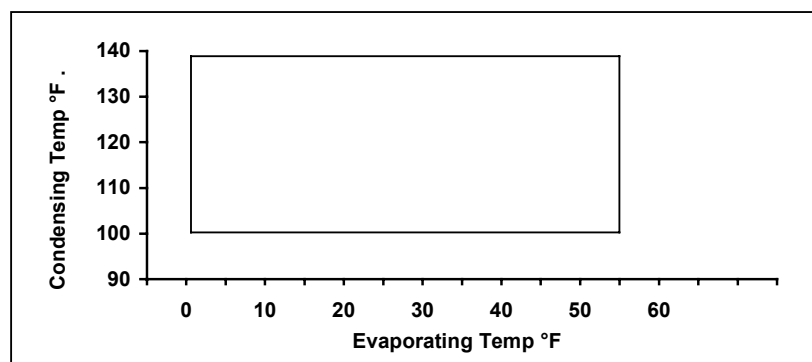
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PRODUCT SPECIFICATION**MODEL – KCJ467HAG-BXXX****D) MECHANICAL SPECIFICATION**

Parameter	Unit	Value
Number of Cylinders	Number (s)	One
Displacement	cm ³ (inch ³) / rev	18.27 (1.12)
Net Weight	kg	21
Approximate Shipping Weight	kg	----
Oil Charge	cm ³ (Oz)	890 (30)
Oil Type	Refrigeration Grade	Polyolester (POE)
IPRV (Pressure Differential)	kg / cm ² (psig)	N / A
Crank Case Heater	W / V	N / A

E) ELECTRICAL SPECIFICATION

Parameter	Unit	Value
Operating Voltage Range	V	180 To 260
Motor Circuit	---	CSIR
Electrical Accessories	---	
➤ Start Capacitor	μF @ V AC	80 -100 @ 275
➤ Run Capacitor	μF @ V AC	N / A
➤ Relay	---	KARP-5641 OR MTRP-5641
➤ Over Load Protector	---	KAT0733 / B2
Lock Rotor Ampere (LRA)	A	23
Maximum Continuous Current (MCC)	A	6.5
Motor Insulation	---	B Class
High Potential Test	(kV/second/mA)	1.85 / 1 / 5.5

F) OPERATING ENVELOP @ 230 V, 50 Hz, 1 Phase

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PRODUCT SPECIFICATION**MODEL – KCJ467HAG-BXXX****PERFORMANCE TABLES**

Superheating	35°C (95°F)	Voltage	230V, 1Phase, 50Hz
Liquid Sub Cooling	8.3°C (15°F)	Compressor Cooling	350 ft ³ / minute
Ambient Temp.	35°C (95°F)	-	-

A) COOLING CAPACITY (Btu / h)

Condensing Temperature		Evaporating Temperature							
		-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°C	(°F)	0	10	20	30	40	45	50	55
37.8	100	1981	2830	3870	5020	6380	7170	8050	9030
43.3	110	1792	2560	3530	4640	5910	6670	7530	8480
48.9	120	1603	2290	3190	4220	5440	6160	6980	7910
54.4	130	1407	2010	2830	3770	4930	5600	6410	7300
60.0	140	1190	1700	2440	3300	4380	5040	5780	6640

B) INPUT POWER (W)

Condensing Temperature		Evaporating Temperature							
		-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°C	(°F)	0	10	20	30	40	45	50	55
37.8	100	236	385	455	496	555	610	686	795
43.3	110	241	399	475	520	580	634	710	815
48.9	120	241	410	495	545	610	660	738	842
54.4	130	235	415	510	570	640	675	769	873
60.0	140	220	417	525	590	666	725	801	906

C) INPUT CURRENT (A)

Condensing Temperature		Evaporating Temperature							
		-17.8	-12.2	-6.7	-1.1	4.4	7.2	10	12.8
°C	(°F)	0	10	20	30	40	45	50	55
37.8	100	2.07	2.77	3.06	3.20	3.40	3.57	3.85	4.26
43.3	110	2.12	2.83	3.15	3.30	3.50	3.68	4.00	4.40
48.9	120	2.14	2.88	3.20	3.39	3.60	3.75	4.10	4.53
54.4	130	2.15	2.90	3.26	3.45	3.70	3.85	4.20	4.65
60.0	140	2.12	2.91	3.30	3.50	3.77	4.00	4.30	4.75

- Note – 1. Nominal performance values ($\pm 5\%$) based on 24 hours running. Subject to change without notice.
2. Compressor is intended to be operated in the range of condensing & evaporating temperature where performance values are specified in above tables.

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