



Model: AJK510T-HZ3C (CAJ9510T)

Product Description

Type: Reciprocating
Application: MBP/HBP - Medium/High Back Pressure
Refrigerant: R-22
Voltage/Frequency: 208-220V ~ 60Hz
Version: N/A

Product Specifications

Performance

Condition	Test Voltage	Refrigeration Capacity			Input Power	Efficiency			EVAP TEMP	COND TEMP	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		Btu/h	kcal/h	W	W	Btu/Wh	kcal/Wh	W/W					
EN12900	220V ~ 60HZ	9464	2384	2772	1264	7.48	1.88	2.19	5°C (41°F)	50°C (122°F)	32°C (90°F)	20°C (68°F)	50°C (122°F)

General

Evaporating Temp. Range: -23.3°C to 12.8°C (-10°F to 55°F)
Motor Torque: High Start Torque (HST)
Compressor Cooling: Fan

Mechanical

Weight: 21
Weight Unit of Measure: KG
Displacement (cc): 18.3
Oil Type: Synthetic Alkylate
Viscosity (cSt): 68
Oil Charge (cc): 475

Electrical

Voltage Range (50 Hz): N/A
Voltage Range (60 Hz): 187-242
Locked Rotor Amps (LRA): 36
Rated Load Amps (RLA 50 Hz): 6.7
Rated Load Amps (RLA 60 Hz): 6.7
Max. Continuous Current (MCC in Amps): 9.5
Motor Resistance (Ohm) - Main: 1.5
Motor Resistance (Ohm) - Start: 6.2
Motor Type: CSR
Overload Type: N/A
Relay Type: N/A

Agency Approval

CE Listed



Tecumseh

Performance Data Sheet

AJK510T-HZ3C

General Information

Model	AJK510T-HZ3C	Refrigerant	R-22
Test Condition	Tecumseh Europe	Performance Test Voltage	220V ~ 60HZ
Return Gas	10K (18°F) SUPERHEAT	Motor Type	CSR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-23.3	Watts (Capacity)	1400	1270	1140	1000	859	713	563	407
	Watts (Power)	854	806	769	739	713	690	664	635
	Amps	3.98	3.86	3.75	3.64	3.53	3.43	3.33	3.22
-20	Watts (Capacity)	1590	1450	1310	1160	1010	862	706	545
	Watts (Power)	887	849	822	802	786	773	757	737
	Amps	4.25	4.16	4.07	3.99	3.91	3.84	3.76	3.68
-15	Watts (Capacity)	1930	1770	1610	1460	1290	1130	962	791
	Watts (Power)	932	910	898	893	893	894	893	888
	Amps	4.61	4.57	4.53	4.50	4.46	4.43	4.40	4.37
-10	Watts (Capacity)	2340	2160	1980	1810	1630	1450	1260	1080
	Watts (Power)	973	966	969	979	994	1010	1020	1030
	Amps	4.92	4.93	4.94	4.96	4.99	5.01	5.03	5.06
-6.7	Watts (Capacity)	2650	2460	2260	2070	1880	1680	1490	1290
	Watts (Power)	998	1000	1010	1030	1060	1080	1110	1120
	Amps	5.08	5.14	5.19	5.25	5.31	5.38	5.44	5.50
-5	Watts (Capacity)	2820	2620	2420	2220	2020	1810	1610	1410
	Watts (Power)	1010	1020	1040	1060	1090	1120	1150	1170
	Amps	5.16	5.23	5.31	5.39	5.48	5.56	5.65	5.73
0	Watts (Capacity)	3370	3140	2910	2680	2460	2230	2010	1780
	Watts (Power)	1040	1060	1100	1140	1180	1220	1270	1300
	Amps	5.35	5.49	5.64	5.79	5.94	6.09	6.24	6.40

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.808829E+03	1.280839E+03	4.634605E+00	
C2	1.585586E+02	-1.224904E+01	-5.722387E-02	
C3	-5.016905E+01	-2.289783E+01	1.794363E-02	

C4	1.840492E+00	-6.599616E-02	-1.995574E-03	
C5	-1.531058E+00	6.204591E-01	3.005411E-03	
C6	8.600859E-02	6.163428E-01	2.394080E-04	
C7	-2.000000E-16	-1.000000E-16	0.000000E+00	
C8	-1.517862E-02	-8.190190E-04	2.801240E-05	
C9	4.710000E-03	-5.080000E-04	-1.430000E-06	
C10	-4.680000E-04	-3.980000E-03	-1.520000E-06	

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature