

**Model: AJE4511YGZ (CAJ4511Y)**
**Product Description**

**Type:** Reciprocating  
**Application:** HBP - High Back Pressure  
**Refrigerant:** R-134a  
**Voltage/Frequency:** 208-220V ~ 50Hz  
**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 ~ 50HZ	9942	2505	2913	1042	9.54	2.4	2.8	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)

**General**

**Evaporating Temp. Range:** -15°C to 15°C (5°F to 59°F)  
**Motor Torque:** High Start Torque (HST)  
**Compressor Cooling:** Fan

**Mechanical**

**Weight:** 23  
**Weight Unit of Measure:** KG  
**Displacement (cc):** 32.7  
**Oil Type:** Polyolester  
**Viscosity (cSt):** 32  
**Oil Charge (cc):** 782

**Electrical**

**Voltage Range (50 Hz):** 187-242  
**Voltage Range (60 Hz):** N/A  
**Locked Rotor Amps (LRA):** 31  
**Rated Load Amps (RLA 50 Hz):** 5.5  
**Rated Load Amps (RLA 60 Hz):** 5.5  
**Max. Continuous Current (MCC in Amps):** 9.4  
**Motor Resistance (Ohm) - Main:** 2.1  
**Motor Resistance (Ohm) - Start:** 9.7  
**Motor Type:** CSR  
**Overload Type:** N/A  
**Relay Type:** N/A

**Agency Approval**

CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed



# Tecumseh

## Performance Data Sheet

### AJE4511YGZ

### General Information

<b>Model</b>	AJE4511YGZ	<b>Refrigerant</b>	R-134a
<b>Test Condition</b>	EN12900	<b>Performance Test Voltage</b>	220V ~ 50HZ
<b>Return Gas</b>	20°C (68°F) RETURN GAS	<b>Motor Type</b>	CSR

### Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-6.7	Watts (Capacity)	2260	2110	1960	1800	1630	1470	1310	1150
	Watts (Power)	737	771	804	834	860	883	900	911
	Amps	3.86	3.99	4.12	4.23	4.34	4.44	4.52	4.60
-5	Watts (Capacity)	2430	2280	2110	1950	1770	1600	1430	1260
	Watts (Power)	759	795	831	864	894	920	942	958
	Amps	3.95	4.10	4.25	4.38	4.50	4.62	4.72	4.82
0	Watts (Capacity)	3000	2820	2630	2430	2220	2020	1810	1610
	Watts (Power)	825	867	910	952	992	1030	1070	1100
	Amps	4.23	4.43	4.62	4.81	4.98	5.14	5.29	5.44
5	Watts (Capacity)	3660	3440	3210	2980	2740	2500	2250	2010
	Watts (Power)	896	943	992	1040	1090	1140	1190	1230
	Amps	4.51	4.76	5.00	5.23	5.45	5.66	5.86	6.06
7.2	Watts (Capacity)	3980	3740	3500	3250	2990	2730	2460	2200
	Watts (Power)	929	978	1030	1080	1140	1190	1240	1290
	Amps	4.63	4.90	5.16	5.41	5.65	5.89	6.11	6.33
10	Watts (Capacity)	4410	4150	3890	3610	3330	3040	2750	2470
	Watts (Power)	974	1030	1080	1140	1190	1250	1310	1370
	Amps	4.78	5.08	5.37	5.65	5.92	6.18	6.43	6.67
15	Watts (Capacity)	5270	4970	4660	4330	4000	3670	3330	2990
	Watts (Power)	1060	1120	1170	1240	1300	1370	1440	1500
	Amps	5.05	5.39	5.73	6.06	6.38	6.69	6.99	7.28

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.786849E+03	6.176515E+02	2.834121E+00	
C2	1.538651E+02	1.326561E+01	-3.196492E-03	
C3	-1.388283E+01	4.363813E+00	5.220892E-02	

C4	2.396540E+00	2.310686E-01	-8.676708E-05	
C5	-9.247929E-01	-1.620669E-01	1.957720E-03	
C6	-5.015886E-01	1.173368E-01	-1.868676E-04	
C7	1.310053E-02	3.179043E-03	0.000000E+00	
C8	-2.181887E-02	-4.280394E-03	0.000000E+00	
C9	-4.579349E-03	5.790741E-03	0.000000E+00	
C10	3.082218E-03	-1.096337E-03	0.000000E+00	

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

Te = Evaporator Temperature

Tc = Condensing Temperature

