

**Model: AJE4461YGZ (CAJ4461Y)**
**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	5123	1291	1501	607	8.44	2.13	2.47	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:** 20  
**Weight Unit of Measure:** KG  
**Displacement (cc):** 18.3  
**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):** 22  
**Rated Load Amps (RLA 50 Hz):** 4.4  
**Rated Load Amps (RLA 60 Hz):** 4.4  
**Max. Continuous Current (MCC in Amps):** 5.3  
**Motor Resistance (Ohm) - Main:** 3.3  
**Motor Resistance (Ohm) - Start:** 14  
**Motor Type:** CSIR  
**Overload Type:** N/A  
**Relay Type:** N/A

**Agency Approval**

CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed



# Tecumseh

## Performance Data Sheet

### AJE4461YGZ

### General Information

<b>Model</b>	AJE4461YGZ	<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>	CSIR

### Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-6.7	Watts (Capacity)	1140	1050	952	854	756	656	556	457
	Watts (Power)	451	466	476	482	484	482	477	467
	Amps	3.60	3.67	3.71	3.75	3.76	3.75	3.73	3.68
-5	Watts (Capacity)	1240	1140	1040	939	834	729	624	519
	Watts (Power)	462	479	492	501	506	508	506	500
	Amps	3.63	3.71	3.77	3.81	3.83	3.84	3.82	3.79
0	Watts (Capacity)	1560	1450	1330	1210	1090	969	845	721
	Watts (Power)	493	517	538	556	570	582	590	595
	Amps	3.72	3.83	3.92	3.99	4.05	4.08	4.10	4.10
5	Watts (Capacity)	1940	1810	1680	1530	1390	1250	1100	957
	Watts (Power)	520	552	581	607	631	652	671	687
	Amps	3.80	3.94	4.06	4.17	4.25	4.32	4.37	4.40
7.2	Watts (Capacity)	2130	1990	1840	1690	1540	1380	1230	1070
	Watts (Power)	531	566	599	629	657	683	706	726
	Amps	3.83	3.99	4.13	4.24	4.34	4.42	4.49	4.53
10	Watts (Capacity)	2380	2230	2070	1910	1740	1570	1400	1230
	Watts (Power)	545	584	621	657	690	720	749	776
	Amps	3.87	4.05	4.20	4.34	4.45	4.55	4.63	4.69
15	Watts (Capacity)	2890	2710	2520	2330	2140	1940	1750	1550
	Watts (Power)	567	614	660	704	746	787	826	864
	Amps	3.94	4.14	4.33	4.50	4.65	4.78	4.89	4.98

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.105876E+03	2.735922E+02	2.663090E+00	
C2	9.108188E+01	-9.659690E-01	-2.072920E-02	
C3	-1.291378E+01	9.493787E+00	4.637940E-02	

C4	1.413419E+00	-7.387733E-02	-1.537690E-04	
C5	-6.433247E-01	1.578609E-01	1.258030E-03	
C6	-2.078243E-01	-7.513620E-02	-3.738900E-04	
C7	6.912892E-03	5.762077E-04	0.000000E+00	
C8	-1.143432E-02	3.110190E-04	0.000000E+00	
C9	-1.332886E-03	2.210091E-03	0.000000E+00	
C10	1.212660E-03	7.877887E-05	0.000000E+00	

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

$T_e$  = Evaporator Temperature

$T_c$  = Condensing Temperature

