



## Model: AJE2433ZHZ (CAJ2446Z)

### Product Description

**Type:** Reciprocating  
**Application:** LBP - Low Back Pressure  
**Refrigerant:** R404A  
**Voltage/Frequency:** 208-220V ~ 60Hz

### 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 ASERCOM	220V ~ 60HZ	1922	484	563	748	2.57	.65	.75	-35°C (-31°F)	40°C (104°F)	32°C (90°F)	-25°C (-13°F)	40°C (104°F)

#### General

**Evaporating Temp. Range:** -40°C to -12.2°C (-40°F to 10°F)  
**Motor Torque:** High Start Torque (HST)  
**Compressor Cooling:** Fan

#### Mechanical

**Weight:** 23.3  
**Weight Unit of Measure:** N/A  
**Displacement (cc):** 26.15  
**Oil Type:** Polyolester  
**Viscosity (cSt):** 32  
**Oil Charge (cc):** 887  
**Sound Power dB(A):** N/A

#### Electrical

**Voltage Range (50 Hz):** N/A  
**Voltage Range (60 Hz):** 187-242  
**Locked Rotor Amps (LRA):** 37  
**Rated Load Amps (RLA 50 Hz):** 4.8  
**Rated Load Amps (RLA 60 Hz):** 4.8  
**Max. Continuous Current (MCC in Amps):** 11.4  
**Motor Resitance (Ohm) - Main:** N/A  
**Motor Resitance (Ohm) - Start:** N/A  
**Motor Type:** CSR  
**Overload Type:** N/A  
**Relay Type:** N/A

#### Agency Approval

CE Listed, CSA Listed, GOST RUSSIA Listed, SASO Listed, UL Recognized



# Tecumseh

## Performance Data Sheet

### AJE2433ZH

### General Information

<b>Model</b>	AJE2433ZH	<b>Refrigerant</b>	R404A
<b>Test Condition</b>	EN12900 ASERCOM	<b>Performance Test Voltage</b>	220V ~ 60HZ
<b>Return Gas</b>	20°C (68°F) RETURN GAS	<b>Motor Type</b>	CSR

### Performance Information

Evap Temp (°C)	Condensing Temperature (°C)					
		30	40	50	60	70
-40	Watts (Capacity)	665	499	341	193	56.4
	Watts (Power)	641	630	587	511	404
	Amps	2.99	2.91	2.72	2.41	1.98
-35	Watts (Capacity)	925	724	532	350	179
	Watts (Power)	734	748	730	679	596
	Amps	3.39	3.43	3.35	3.15	2.84
-30	Watts (Capacity)	1240	992	755	529	315
	Watts (Power)	834	872	879	853	795
	Amps	3.84	3.99	4.02	3.93	3.73
-25	Watts (Capacity)	1610	1310	1020	736	469
	Watts (Power)	938	1000	1030	1030	998
	Amps	4.32	4.58	4.73	4.75	4.66
-23.3	Watts (Capacity)	1750	1430	1110	814	526
	Watts (Power)	975	1050	1090	1090	1070
	Amps	4.49	4.79	4.97	5.04	4.98
-20	Watts (Capacity)	2040	1670	1320	977	646
	Watts (Power)	1050	1140	1190	1220	1210
	Amps	4.84	5.21	5.47	5.60	5.62
-15	Watts (Capacity)	2540	2100	1670	1260	853
	Watts (Power)	1160	1280	1360	1400	1420
	Amps	5.39	5.88	6.24	6.49	6.63
-10	Watts (Capacity)	3110	2590	2080	1580	1090
	Watts (Power)	1280	1420	1530	1600	1640
	Amps	5.98	6.58	7.06	7.42	7.66

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.693235E+03	7.846576E+02	4.104740E+00	
C2	2.215206E+02	1.188446E+01	6.918666E-02	
C3	-7.362381E+01	3.002449E+01	1.232839E-01	
C4	2.390447E+00	1.061903E-01	7.287340E-04	
C5	-2.178155E+00	4.950765E-01	2.237933E-03	
C6	1.023009E-02	-1.614506E-01	-5.886800E-04	
C7	7.315726E-03	0.000000E+00	0.000000E+00	
C8	-1.954020E-02	0.000000E+00	0.000000E+00	
C9	2.656750E-04	0.000000E+00	0.000000E+00	
C10	3.288600E-04	0.000000E+00	0.000000E+00	

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

Te = Evaporator Temperature

Tc = Condensing Temperature