



# Tecumseh

## Performance Data Sheet

### AJEK513ZHZ

### General Information

<b>Model</b>	AJEK513ZHZ	<b>Refrigerant</b>	R-404A
<b>Test Condition</b>	Tecumseh Europe	<b>Performance Test Voltage</b>	220V ~ 60HZ
<b>Return Gas</b>	-6.7°C (20°F) SUPERHEAT	<b>Motor Type</b>	CSR

### Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-23.3	Watts (Capacity)	1450	1270	1100	945	809	687	578	484
	Watts (Power)	887	861	836	812	791	773	758	747
	Amps	3.98	3.92	3.86	3.80	3.74	3.69	3.63	3.57
-20	Watts (Capacity)	1780	1570	1380	1210	1050	903	771	653
	Watts (Power)	956	933	912	895	882	874	870	872
	Amps	4.27	4.26	4.25	4.24	4.23	4.22	4.21	4.20
-15	Watts (Capacity)	2360	2120	1880	1670	1470	1280	1110	950
	Watts (Power)	1060	1040	1030	1020	1020	1030	1040	1070
	Amps	4.72	4.78	4.84	4.90	4.96	5.02	5.09	5.15
-10	Watts (Capacity)	3050	2760	2480	2210	1960	1730	1510	1300
	Watts (Power)	1150	1140	1140	1140	1160	1180	1220	1270
	Amps	5.17	5.30	5.43	5.56	5.69	5.82	5.95	6.08
-6.7	Watts (Capacity)	3570	3240	2920	2620	2340	2070	1820	1580
	Watts (Power)	1210	1200	1210	1220	1250	1290	1340	1400
	Amps	5.47	5.64	5.82	5.99	6.16	6.34	6.51	6.68
-5	Watts (Capacity)	3860	3510	3170	2850	2550	2260	1990	1730
	Watts (Power)	1240	1240	1250	1270	1300	1340	1400	1470
	Amps	5.63	5.82	6.02	6.21	6.41	6.60	6.80	6.99
0	Watts (Capacity)	4790	4380	3980	3600	3240	2890	2550	2230
	Watts (Power)	1320	1330	1350	1390	1440	1510	1590	1690
	Amps	6.10	6.35	6.61	6.86	7.12	7.38	7.64	7.90

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.655570E+03	1.530210E+03	4.663992E+00	
C2	2.786260E+02	1.362830E+01	2.031386E-02	
C3	-1.074710E+02	-1.375100E+01	4.392193E-02	

C4	3.624230E+00	-3.115990E-01	4.700530E-04	
C5	-2.610370E+00	-2.499450E-01	2.452420E-03	
C6	4.273390E-01	2.047050E-01	1.588010E-04	
C7	1.501510E-02	2.689240E-04	0.000000E+00	
C8	-2.767610E-02	6.662280E-03	-1.167440E-05	
C9	9.780000E-05	1.080090E-02	-1.960000E-07	
C10	-8.911840E-04	6.736470E-04	-1.070000E-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

