



# Tecumseh

## Performance Data Sheet

### RKA5513CFZ

### General Information

<b>Model</b>	RKA5513CFZ	<b>Refrigerant</b>	R407C
<b>Test Condition</b>	Tecumseh Europe	<b>Performance Test Voltage</b>	230V ~ 50HZ
<b>Return Gas</b>	-6.7°C (20°F) SUPERHEAT	<b>Motor Type</b>	PSC

### Performance Information

Evap Temp (°C)	Condensing Temperature (°C)					
		30	40	50	60	70
-25	Watts (Capacity)	1300				
	Watts (Power)	431				
	Amps	1.92				
-23.3	Watts (Capacity)	1310	1090			
	Watts (Power)	453	541			
	Amps	2.03	2.38			
-20	Watts (Capacity)	1370	1180			
	Watts (Power)	491	581			
	Amps	2.23	2.58			
-15	Watts (Capacity)	1540	1380	1170		
	Watts (Power)	542	633	720		
	Amps	2.49	2.84	3.22		
-10	Watts (Capacity)	1810	1660	1440	1140	
	Watts (Power)	583	678	773	867	
	Amps	2.68	3.05	3.46	3.90	
-6.7	Watts (Capacity)	2030	1890	1650	1330	913
	Watts (Power)	605	703	804	907	1010
	Amps	2.77	3.17	3.60	4.07	4.58
-5	Watts (Capacity)	2160	2020	1780	1430	992
	Watts (Power)	614	714	819	927	1040
	Amps	2.81	3.22	3.67	4.15	4.67
0	Watts (Capacity)	2610	2460	2180	1780	1250
	Watts (Power)	636	743	858	983	1120
	Amps	2.88	3.34	3.84	4.38	4.96

5	Watts (Capacity)	3160	2980	2660	2180	1550
	Watts (Power)	648	763	891	1030	1190
	Amps	2.89	3.41	3.97	4.58	5.24
7.2	Watts (Capacity)	3430	3240	2890	2370	1690
	Watts (Power)	650	769	903	1050	1220
	Amps	2.88	3.42	4.02	4.66	5.35
10	Watts (Capacity)	3800	3590	3200	2630	1880
	Watts (Power)	650	775	917	1080	1260
	Amps	2.84	3.43	4.07	4.76	5.50
15	Watts (Capacity)	4530	4270	3800	3130	2260
	Watts (Power)	642	778	937	1120	1320
	Amps	2.73	3.40	4.13	4.92	5.76

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.312437E+03	3.663419E+02	1.776209E+00	
C2	7.815508E+01	4.335193E+00	-1.990244E-02	
C3	2.897833E+01	7.681552E+00	3.045819E-02	
C4	2.697288E+00	-2.833119E-01	-2.000730E-03	
C5	1.495415E+00	-1.691723E-01	8.110590E-04	
C6	-6.309963E-01	4.315041E-02	2.146660E-04	
C7	-1.000000E-16	0.000000E+00	0.000000E+00	
C8	-2.716915E-02	3.002330E-03	2.589190E-05	
C9	-2.600000E-02	4.540000E-03	3.930000E-06	
C10	-2.000000E-16	-1.000000E-16	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<sub>e</sub> = Evaporator Temperature

T<sub>c</sub> = Condensing Temperature