



Tecumseh

Performance Data Sheet

RKA5515CFZ

General Information

Model	RKA5515CFZ	Refrigerant	R407C
Test Condition	Tecumseh Europe	Performance Test Voltage	230V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)					
		30	40	50	60	70
-25	Watts (Capacity)	1580				
	Watts (Power)	500				
	Amps	2.39				
-23.3	Watts (Capacity)	1600	1330			
	Watts (Power)	527	628			
	Amps	2.52	2.94			
-20	Watts (Capacity)	1670	1440			
	Watts (Power)	575	678			
	Amps	2.75	3.16			
-15	Watts (Capacity)	1880	1680	1420		
	Watts (Power)	637	744	845		
	Amps	3.03	3.46	3.92		
-10	Watts (Capacity)	2200	2020	1750	1390	
	Watts (Power)	686	798	909	1020	
	Amps	3.24	3.69	4.19	4.72	
-6.7	Watts (Capacity)	2470	2300	2020	1620	1110
	Watts (Power)	711	827	946	1070	1190
	Amps	3.35	3.82	4.34	4.91	5.52
-5	Watts (Capacity)	2630	2460	2170	1750	1210
	Watts (Power)	722	840	963	1090	1220
	Amps	3.39	3.88	4.41	5.00	5.63
0	Watts (Capacity)	3180	3000	2660	2170	1520
	Watts (Power)	745	871	1010	1150	1310
	Amps	3.46	4.00	4.60	5.25	5.95

5	Watts (Capacity)	3850	3640	3240	2650	1880
	Watts (Power)	755	889	1040	1200	1380
	Amps	3.46	4.07	4.75	5.47	6.26
7.2	Watts (Capacity)	4180	3950	3520	2890	2060
	Watts (Power)	756	894	1050	1220	1420
	Amps	3.43	4.09	4.80	5.57	6.39
10	Watts (Capacity)	4630	4370	3900	3200	2290
	Watts (Power)	752	896	1060	1250	1450
	Amps	3.39	4.09	4.85	5.67	6.56
15	Watts (Capacity)	5520	5200	4640	3820	2750
	Watts (Power)	736	891	1070	1280	1510
	Amps	3.24	4.05	4.92	5.85	6.85

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.817087E+03	4.293956E+02	2.129572E+00	
C2	9.529869E+01	4.855789E+00	-2.504949E-02	
C3	3.530133E+01	9.008295E+00	3.653468E-02	
C4	3.292697E+00	-3.312612E-01	-2.349605E-03	
C5	1.822358E+00	-2.109711E-01	9.334680E-04	
C6	-7.686907E-01	5.060963E-02	2.573340E-04	
C7	-1.000000E-16	0.000000E+00	0.000000E+00	
C8	-3.315539E-02	2.397720E-03	3.097200E-05	
C9	-3.170000E-02	5.310000E-03	4.620000E-06	
C10	-4.000000E-16	-1.000000E-16	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