



Tecumseh

Performance Data Sheet

AWG5515EXN

General Information

Model	AWG5515EXN	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3920	3440					
	Watts	706	693					
	Amps	3.24	3.17					
	Lb/h	50.6	46.2					
-10	Btu/h	4730	4170	3600				
	Watts	759	751	750				
	Amps	3.49	3.43	3.44				
	Lb/h	60.7	55.7	50.0				
-5	Btu/h	5690	5050	4380	3730			
	Watts	811	808	811	817			
	Amps	3.73	3.68	3.71	3.77			
	Lb/h	72.5	66.8	60.5	53.9			
0	Btu/h	6790	6070	5310	4560	3850		
	Watts	861	864	873	884	893		
	Amps	3.95	3.93	3.97	4.05	4.13		
	Lb/h	86.1	79.8	72.8	65.3	57.7		
5	Btu/h	8060	7240	6390	5530	4710		
	Watts	908	917	933	951	965		
	Amps	4.15	4.16	4.23	4.33	4.44		
	Lb/h	101	94.5	86.8	78.5	70.1		
10	Btu/h	9490	8560	7610	6650	5720	4840	4050
	Watts	950	968	991	1020	1040	1050	1050
	Amps	4.33	4.37	4.47	4.61	4.74	4.83	4.84
	Lb/h	119	111	103	93.6	84.3	74.9	65.8
15	Btu/h	11100	10100	8990	7910	6860	5860	4950
	Watts	988	1010	1050	1080	1110	1130	1140
	Amps	4.49	4.56	4.70	4.87	5.03	5.15	5.20
	Lb/h	138	130	120	111	100	90.0	79.9
20	Btu/h	12800	11700	10500	9330	8160	7030	5980
	Watts	1020	1060	1100	1140	1180	1210	1220
	Amps	4.62	4.73	4.91	5.11	5.31	5.47	5.55
	Lb/h	158	150	140	130	118	107	95.9

25	Btu/h	14800	13500	12200	10900	9610	8340	7160
	Watts	1050	1090	1150	1200	1250	1290	1310
	Amps	4.73	4.88	5.10	5.34	5.58	5.78	5.90
	Lb/h	181	172	162	150	138	126	114
30	Btu/h	16900	15500	14100	12700	11200	9810	8480
	Watts	1060	1120	1190	1250	1310	1360	1400
	Amps	4.80	5.00	5.26	5.56	5.84	6.08	6.25
	Lb/h	206	196	185	173	161	147	134
35	Btu/h	19200	17700	16200	14600	13000	11400	9960
	Watts	1070	1150	1220	1300	1370	1430	1480
	Amps	4.84	5.09	5.40	5.75	6.08	6.37	6.59
	Lb/h	233	223	211	198	185	171	156
40	Btu/h	21800	20100	18400	16700	14900	13200	11600
	Watts	1070	1160	1250	1340	1420	1500	1560
	Amps	4.84	5.15	5.52	5.91	6.30	6.65	6.91
	Lb/h	262	251	239	225	211	196	180
45	Btu/h	24500	22700	20800	18900	17100	15200	13400
	Watts	1060	1170	1270	1370	1470	1560	1630
	Amps	4.80	5.17	5.60	6.05	6.50	6.90	7.22
	Lb/h	293	282	269	255	239	223	207
50	Btu/h	27400	25500	23500	21400	19400	17300	15400
	Watts	1040	1160	1280	1400	1510	1620	1700
	Amps	4.71	5.15	5.64	6.16	6.67	7.13	7.52
	Lb/h	326	314	301	286	270	253	236
55	Btu/h	30500	28400	26300	24100	21900	19700	17500
	Watts	1010	1150	1280	1420	1550	1660	1770
	Amps	4.59	5.09	5.65	6.24	6.81	7.34	7.79
	Lb/h	361	349	335	320	303	285	267

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.085445E+03	1.649400E+03	1.079152E+01	7.298606E+01
C2	3.513206E+02	-3.282100E+00	-1.742958E-03	3.125939E+00
C3	7.050375E+01	-2.454153E+01	-2.019593E-01	1.237057E+00
C4	4.086539E+00	-2.225782E-01	-1.048529E-03	3.382688E-02
C5	-1.081731E+00	1.899650E-01	6.173526E-04	5.043441E-03
C6	-1.485899E+00	2.468077E-01	1.924600E-03	-1.751664E-02
C7	7.137966E-03	-1.157667E-03	-3.582553E-06	5.422985E-05
C8	-1.185197E-02	1.999479E-03	8.537644E-06	2.194052E-05
C9	-4.325192E-03	-3.514001E-04	-7.939491E-07	-1.004606E-04
C10	5.035552E-03	-7.904241E-04	-5.866926E-06	5.123342E-05

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

Te = Evaporator Temperature

Tc = Condensing Temperature