



Tecumseh

Performance Data Sheet

AKA4476YXD

General Information

Model	AKA4476YXD	Refrigerant	R-134a
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
20	Btu/h	5120	5150	4900	4450	3880	3280	2740
	Watts	565	655	707	733	744	749	761
	Amps	3.46	4.00	4.32	4.48	4.53	4.56	4.61
	Lb/h	64.3	69.3	69.7	66.6	61.4	55.2	49.3
25	Btu/h	5920	5900	5600	5100	4480	3830	3240
	Watts	593	689	748	782	801	815	836
	Amps	3.60	4.15	4.48	4.66	4.74	4.80	4.89
	Lb/h	75.0	79.7	79.8	76.6	71.1	64.8	58.7
30	Btu/h	6860	6790	6430	5870	5190	4490	3850
	Watts	617	720	787	828	855	878	907
	Amps	3.73	4.29	4.64	4.83	4.95	5.03	5.16
	Lb/h	87.6	92.1	92.0	88.5	82.9	76.4	70.1
35	Btu/h	7910	7770	7360	6740	6010	5250	4550
	Watts	639	749	822	871	906	937	975
	Amps	3.85	4.42	4.78	5.00	5.14	5.26	5.43
	Lb/h	102	106	106	102	96.4	89.7	83.3
40	Btu/h	9040	8840	8360	7680	6890	6070	5310
	Watts	660	776	856	912	955	994	1040
	Amps	3.97	4.55	4.93	5.17	5.33	5.48	5.68
	Lb/h	117	121	121	117	111	104	97.7
45	Btu/h	10200	9970	9420	8670	7810	6930	6110
	Watts	681	803	890	953	1000	1050	1110
	Amps	4.09	4.68	5.07	5.33	5.52	5.70	5.94
	Lb/h	134	138	137	133	127	120	113
50	Btu/h	11500	11100	10500	9690	8760	7810	6920
	Watts	702	829	923	993	1050	1110	1170
	Amps	4.21	4.81	5.21	5.49	5.70	5.92	6.19
	Lb/h	151	154	154	149	143	136	129
55	Btu/h	12700	12300	11600	10700	9700	8680	7720
	Watts	723	857	957	1030	1100	1160	1230
	Amps	4.33	4.93	5.35	5.65	5.89	6.13	6.44
	Lb/h	168	171	170	166	160	153	146

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.875970E+04	-2.747086E+03	-1.759726E+01	-3.144901E+02
C2	4.461538E+01	1.217391E+00	5.951372E-02	1.256852E-01
C3	6.152143E+02	8.201890E+01	5.130381E-01	9.480675E+00
C4	5.721377E+00	-1.075333E-01	-2.405724E-04	7.213503E-02
C5	-8.738208E-01	7.135387E-02	-7.256643E-04	-9.138667E-03
C6	-5.323742E+00	-6.737327E-01	-4.062771E-03	-7.800811E-02
C7	-3.283275E-02	1.018172E-03	2.151868E-06	-4.703625E-04
C8	-7.389868E-03	-3.199970E-04	-7.001147E-07	2.965952E-05
C9	8.749844E-04	4.636320E-04	5.614556E-06	1.619034E-05
C10	1.432558E-02	1.777483E-03	1.048505E-05	2.024044E-04

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

Te = Evaporator Temperature

Tc = Condensing Temperature