



Tecumseh

Performance Data Sheet

AKA9455EXD

General Information

Model	AKA9455EXD	Refrigerant	R-22
Test Condition	ASHRAE	Performance Test Voltage	230V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	Motor Type	CSR

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
0	Btu/h	9220	6330	4270	2700	1290		
	Watts	721	743	760	769	770	758	734
	Amps	4.13	4.02	4.00	4.04	4.09	4.15	4.16
	Lb/h	117	81.2	56.1	37.1	19.7		
5	Btu/h	9580	7040	5370	4230	3290	2230	696
	Watts	730	763	790	811	822	822	810
	Amps	4.21	4.14	4.14	4.20	4.27	4.33	4.34
	Lb/h	121	90.3	70.8	58.0	47.5	34.7	14.8
10	Btu/h	9860	7480	6010	5110	4470	3730	2580
	Watts	749	789	825	854	875	885	883
	Amps	4.26	4.23	4.28	4.36	4.45	4.51	4.52
	Lb/h	124	95.9	79.4	70.4	64.3	56.5	42.3
15	Btu/h	10500	8110	6650	5810	5260	4670	3700
	Watts	772	818	860	896	924	942	948
	Amps	4.30	4.32	4.40	4.51	4.62	4.70	4.72
	Lb/h	133	104	88.1	80.3	76.1	70.8	59.8
20	Btu/h	12000	9380	7740	6770	6130	5500	4530
	Watts	795	845	892	933	966	990	1000
	Amps	4.33	4.40	4.52	4.67	4.80	4.90	4.92
	Lb/h	152	121	103	94.0	89.1	83.8	73.5
25	Btu/h	14800	11700	9730	8440	7530	6670	5510
	Watts	815	868	917	960	997	1020	1040
	Amps	4.35	4.47	4.64	4.82	4.99	5.11	5.15
	Lb/h	189	153	130	117	109	102	89.4
30	Btu/h	19300	15600	13100	11300	9910	8620	7090
	Watts	828	880	930	974	1010	1040	1060
	Amps	4.36	4.54	4.76	4.99	5.19	5.34	5.40
	Lb/h	250	206	176	157	143	130	114

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.018522E+05	5.826387E+02	1.197930E+01	1.345746E+03
C2	-2.747048E+02	-1.378393E+01	-9.666058E-02	-3.763506E+00

C3	-2.330225E+03	-1.103916E+00	-2.138749E-01	-3.134934E+01
C4	1.953469E+01	5.742403E-01	-1.210001E-03	2.626439E-01
C5	1.290697E+00	1.482701E-01	2.079589E-03	1.041728E-02
C6	1.909016E+01	6.174952E-02	1.871866E-03	2.613772E-01
C7	6.013343E-01	-5.278278E-03	4.885919E-06	8.158607E-03
C8	-3.757585E-01	-4.049569E-03	9.078750E-06	-5.053882E-03
C9	4.392309E-02	4.292438E-04	-8.125988E-06	6.662560E-04
C10	-5.545724E-02	-3.297665E-04	-5.309251E-06	-7.684843E-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



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Performance Data Sheet

AKA9455EXD

General Information

Model	AKA9455EXD	Refrigerant	R-22
Test Condition	ASHRAE	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	CSR

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
20	Btu/h	9870	8700	7730	6900	6170	5500	4840
	Watts	727	829	894	935	963	990	1030
	Amps	4.30	4.39	4.52	4.66	4.79	4.90	4.97
	Lb/h	123	112	103	95.7	89.6	83.8	77.6
25	Btu/h	10600	9500	8570	7770	7050	6360	5670
	Watts	740	851	925	975	1010	1050	1100
	Amps	4.31	4.47	4.64	4.82	4.99	5.13	5.22
	Lb/h	131	121	113	107	102	96.1	90.0
30	Btu/h	11600	10500	9570	8770	8030	7310	6560
	Watts	751	869	951	1010	1060	1110	1170
	Amps	4.32	4.52	4.74	4.97	5.17	5.34	5.46
	Lb/h	142	133	126	120	115	110	103
35	Btu/h	12700	11600	10700	9900	9120	8340	7510
	Watts	761	885	975	1040	1100	1150	1230
	Amps	4.31	4.57	4.84	5.10	5.34	5.54	5.68
	Lb/h	154	146	140	135	130	124	117
40	Btu/h	14000	13000	12000	11100	10300	9440	8510
	Watts	770	901	996	1070	1130	1200	1280
	Amps	4.29	4.60	4.91	5.22	5.49	5.72	5.89
	Lb/h	169	162	156	151	145	139	132
45	Btu/h	15500	14400	13400	12500	11600	10600	9540
	Watts	781	916	1020	1100	1170	1240	1330
	Amps	4.26	4.62	4.98	5.32	5.63	5.89	6.08
	Lb/h	186	179	173	168	162	156	147
50	Btu/h	17200	16100	15000	14000	12900	11800	10600
	Watts	794	933	1040	1120	1200	1280	1370
	Amps	4.22	4.62	5.03	5.41	5.76	6.05	6.26
	Lb/h	205	198	192	186	180	172	163

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.741831E+04	-2.754706E+03	8.956218E+00	4.904992E+02
C2	-4.579609E+02	-6.999511E+00	-1.117245E-01	-6.966010E+00

C3	-5.766063E+02	8.903262E+01	-1.252685E-01	-7.897484E+00
C4	8.802074E+00	-3.127412E-02	-2.221796E-04	1.063788E-01
C5	6.449555E+00	1.359603E-01	2.041849E-03	9.530788E-02
C6	3.402743E+00	-7.480572E-01	1.036357E-03	5.034639E-02
C7	-1.253533E-02	1.576231E-03	5.709165E-07	-1.932609E-04
C8	-4.689781E-02	-1.712849E-03	-1.044969E-06	-5.297551E-04
C9	-1.839259E-02	6.254915E-04	-5.485840E-06	-2.573134E-04
C10	-7.665292E-03	2.037632E-03	-2.898141E-06	-1.210135E-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