



Tecumseh

Performance Data Sheet

AEA1360AXA

General Information

Model	AEA1360AXA	Refrigerant	R-12
Test Condition	ASHRAE	Performance Test Voltage	115V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	Motor Type	RSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-40	Btu/h	306	287	258	220	173	119	56.9
	Watts	115	111	106	98.4	88.5	75.5	58.9
	Amps	1.75	1.75	1.73	1.70	1.65	1.59	1.51
	Lb/h	5.13	4.70	4.17	3.53	2.77	1.89	0.86
-35	Btu/h	371	355	328	292	248	196	137
	Watts	123	121	117	112	105	94.4	80.9
	Amps	1.80	1.80	1.80	1.77	1.73	1.68	1.62
	Lb/h	6.22	5.82	5.32	4.71	3.99	3.15	2.16
-30	Btu/h	442	427	403	369	327	278	222
	Watts	132	131	129	126	120	113	102
	Amps	1.84	1.86	1.86	1.84	1.81	1.77	1.72
	Lb/h	7.37	7.00	6.53	5.96	5.28	4.47	3.53
-25	Btu/h	518	506	483	451	412	365	312
	Watts	141	141	141	139	136	130	122
	Amps	1.89	1.91	1.92	1.91	1.89	1.86	1.82
	Lb/h	8.62	8.27	7.83	7.29	6.64	5.87	4.97
-20	Btu/h	602	591	570	540	503	458	408
	Watts	150	151	152	152	151	147	142
	Amps	1.94	1.97	1.98	1.98	1.97	1.95	1.92
	Lb/h	9.97	9.65	9.23	8.72	8.11	7.37	6.51
-15	Btu/h	693	684	664	637	601	559	511
	Watts	160	162	164	165	166	164	161
	Amps	1.99	2.02	2.05	2.06	2.06	2.05	2.03
	Lb/h	11.4	11.1	10.8	10.3	9.69	8.99	8.16
-10	Btu/h	793	785	767	741	708	667	621
	Watts	171	173	176	179	180	181	179
	Amps	2.04	2.09	2.12	2.14	2.14	2.14	2.13
	Lb/h	13.1	12.8	12.4	12.0	11.4	10.7	9.95
-5	Btu/h	903	896	879	855	823	785	741
	Watts	182	185	189	192	195	197	197
	Amps	2.10	2.16	2.20	2.22	2.24	2.25	2.25
	Lb/h	14.8	14.6	14.2	13.8	13.3	12.7	11.9

0	Btu/h	1020	1020	1000	979	948	912	870
	Watts	195	198	202	206	210	213	215
	Amps	2.17	2.23	2.28	2.32	2.34	2.36	2.37
	Lb/h	16.8	16.5	16.2	15.8	15.3	14.7	14.0
5	Btu/h	1150	1150	1130	1110	1080	1050	1010
	Watts	208	211	215	220	225	229	233
	Amps	2.25	2.32	2.37	2.42	2.45	2.48	2.50
	Lb/h	18.9	18.7	18.4	18.0	17.6	17.0	16.3
10	Btu/h	1300	1290	1280	1260	1230	1200	1160
	Watts	222	225	229	235	240	245	250
	Amps	2.34	2.42	2.48	2.53	2.58	2.61	2.64
	Lb/h	21.3	21.1	20.8	20.5	20.0	19.5	18.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.609167E+02	2.577827E+02	1.004097E+00	1.692995E+01
C2	2.485706E+01	4.537482E+00	7.458533E-03	3.970377E-01
C3	1.007255E+01	-2.372769E+00	2.419858E-02	5.949779E-03
C4	2.481674E-01	5.093155E-02	2.100139E-04	4.104856E-03
C5	-1.156796E-02	-4.803414E-02	4.519879E-05	-6.321424E-05
C6	-8.002006E-02	2.646669E-02	-1.425530E-04	2.645788E-05
C7	1.158511E-03	1.346409E-04	2.372594E-06	2.387306E-05
C8	-2.826282E-04	-3.915496E-04	-1.197163E-07	-2.532597E-06
C9	1.823084E-04	2.918257E-04	5.880215E-07	2.663277E-06
C10	1.337465E-04	-8.355453E-05	2.813162E-07	-1.557748E-06

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

Te = Evaporator Temperature

Tc = Condensing Temperature