



Tecumseh

Performance Data Sheet

AEA3417AXA

General Information

Model	AEA3417AXA	Refrigerant	R-12
Test Condition	ASHRAE	Performance Test Voltage	115V ~ 60HZ
Return Gas	35°C (95°F) RETURN GAS	Motor Type	RSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
20	Btu/h	2750	1920	1440	1200	1100	1040	912
	Watts	270	237	220	214	215	220	223
	Amps							
	Lb/h	32.4	25.7	21.8	19.9	19.0	18.5	17.3
25	Btu/h	2930	2090	1590	1340	1230	1160	1040
	Watts	279	247	230	225	228	233	237
	Amps							
	Lb/h	35.2	28.3	24.2	22.1	21.2	20.6	19.5
30	Btu/h	3130	2260	1750	1480	1370	1290	1160
	Watts	289	258	242	238	241	247	253
	Amps							
	Lb/h	38.3	31.1	26.8	24.6	23.6	23.0	21.9
35	Btu/h	3350	2450	1920	1640	1510	1430	1290
	Watts	300	270	255	251	255	263	269
	Amps							
	Lb/h	41.7	34.2	29.7	27.3	26.2	25.5	24.4
40	Btu/h	3580	2660	2100	1810	1660	1570	1430
	Watts	313	283	269	266	272	280	288
	Amps							
	Lb/h	45.3	37.5	32.8	30.2	29.0	28.2	27.1
45	Btu/h	3840	2890	2310	1990	1830	1720	1570
	Watts	326	297	284	283	290	299	309
	Amps							
	Lb/h	49.3	41.2	36.2	33.4	32.0	31.2	30.0
50	Btu/h	4120	3140	2530	2190	2010	1890	1730
	Watts	342	314	302	302	310	321	331
	Amps							
	Lb/h	53.5	45.1	39.8	36.8	35.3	34.3	33.1
55	Btu/h	4420	3410	2770	2400	2200	2070	1890
	Watts	360	333	322	323	332	345	357
	Amps							
	Lb/h	58.1	49.3	43.7	40.5	38.8	37.7	36.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.257309E+04	1.562367E+03	0.000000E+00	2.681198E+02
C2	7.139790E+01	2.126704E+00	0.000000E+00	9.908828E-01
C3	-7.738806E+02	-3.333090E+01	0.000000E+00	-6.273525E+00
C4	5.081991E-01	-2.399299E-02	0.000000E+00	7.338933E-03
C5	-8.907071E-01	-1.058074E-02	0.000000E+00	-1.243017E-02
C6	6.296979E+00	2.651397E-01	0.000000E+00	5.165659E-02
C7	2.083212E-03	3.333304E-04	0.000000E+00	1.249930E-05
C8	-4.306892E-03	1.716028E-04	0.000000E+00	-3.613868E-05
C9	4.030526E-03	8.491779E-05	0.000000E+00	5.437639E-05
C10	-1.721252E-02	-6.991687E-04	0.000000E+00	-1.429725E-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