Performance Data Sheet

AEA3414AXA

General Information

Model	AEA3414AXA	**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	1630	1320	1100	955	865	802	742
	Watts	9.79	108	164	189	196	197	205
	Amps							
	Lb/h	23.5	19.6	17.2	15.8	15.0	14.5	13.8
25	Btu/h	1760	1440	1220	1070	975	908	844
	Watts	7.26	111	171	199	208	210	217
	Amps							
	Lb/h	25.5	21.6	19.2	17.8	17.0	16.5	15.8
30	Btu/h	1890	1570	1340	1190	1090	1020	952
	Watts	5.29	114	178	209	220	222	229
	Amps							
	Lb/h	27.5	23.7	21.3	19.9	19.1	18.6	18.0
35	Btu/h	2040	1710	1480	1320	1220	1140	1070
	Watts	4.32	118	186	220	232	235	241
	Amps							
	Lb/h	29.8	25.9	23.5	22.1	21.3	20.8	20.2
40	Btu/h	2200	1860	1620	1460	1350	1260	1180
	Watts	4.78	124	195	231	245	248	253
	Amps							
	Lb/h	32.1	28.3	25.8	24.4	23.6	23.1	22.5
45	Btu/h	2360	2020	1780	1610	1490	1390	1300
	Watts	7.12	131	206	244	259	262	266
	Amps							
	Lb/h	34.6	30.7	28.3	26.8	26.0	25.5	24.8
50	Btu/h	2540	2190	1930	1760	1630	1530	1430
	Watts	11.8	140	218	259	275	278	281
	Amps							
	Lb/h	37.1	33.3	30.8	29.3	28.5	28.0	27.3
55	Btu/h	2720	2360	2100	1910	1770	1660	1550
	Watts	19.1	152	233	276	293	296	297
	Amps							
	Lb/h	39.8	35.9	33.4	32.0	31.1	30.6	29.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.030290E+04	-3.451704E+03	0.000000E+00	1.442730E+02
C2	7.471111E+00	-1.812530E+01	0.000000E+00	2.317972E-01
C3	-2.138603E+02	9.008411E+01	0.000000E+00	-3.118130E+00
C4	4.938454E-01	-6.157152E-03	0.000000E+00	3.321910E-03
C5	7.033852E-02	3.208307E-01	0.000000E+00	6.684957E-04
C6	1.583250E+00	-7.495270E-01	0.000000E+00	2.413902E-02
C7	-1.250027E-03	5.832748E-04	0.000000E+00	-4.676092E-11
C8	-1.996750E-03	-3.300406E-04	0.000000E+00	-1.155214E-05
C9	-2.375979E-04	-1.167354E-03	0.000000E+00	2.834583E-07
C10	-4.001840E-03	2.067762E-03	0.000000E+00	-6.354614E-05

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