Performance Data Sheet

AE2415Z-AA1A

General Information

Model	AE2415Z-AA1A	**Refrigerant**	R-404A
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	837	732	632	535	441	350	261
	Watts	219	220	219	217	212	205	195
	Amps	3.64	3.60	3.57	3.55	3.51	3.47	3.39
	Lb/h	12.6	11.6	10.7	9.80	8.90	7.99	7.06
-35	Btu/h	973	866	762	660	560	462	365
	Watts	236	239	240	239	236	230	222
	Amps	3.74	3.71	3.70	3.68	3.66	3.62	3.56
	Lb/h	14.7	13.8	12.9	12.0	11.2	10.2	9.24
-30	Btu/h	1120	1010	901	791	683	575	467
	Watts	253	258	260	261	259	255	249
	Amps	3.83	3.82	3.81	3.81	3.80	3.77	3.72
	Lb/h	17.0	16.2	15.3	14.4	13.5	12.6	11.5
-25	Btu/h	1290	1170	1050	932	813	693	572
	Watts	270	276	280	283	283	281	276
	Amps	3.92	3.92	3.93	3.94	3.94	3.92	3.89
	Lb/h	19.6	18.8	17.9	17.0	16.1	15.1	14.0
-20	Btu/h	1480	1350	1220	1080	951	817	680
	Watts	286	294	300	304	306	306	303
	Amps	4.00	4.02	4.04	4.06	4.08	4.08	4.05
	Lb/h	22.4	21.6	20.8	19.9	18.9	17.8	16.6
-15	Btu/h	1680	1540	1400	1250	1100	950	795
	Watts	302	312	320	326	330	332	331
	Amps	4.09	4.12	4.16	4.19	4.22	4.24	4.23
	Lb/h	25.6	24.8	24.0	23.0	22.0	20.8	19.5
-10	Btu/h	1910	1760	1600	1430	1260	1090	919
	Watts	318	330	340	348	354	358	359
	Amps	4.18	4.22	4.28	4.33	4.37	4.40	4.41
	Lb/h	29.1	28.4	27.5	26.5	25.3	24.1	22.6
-5	Btu/h	2170	1990	1810	1630	1440	1250	1050
	Watts	335	349	361	371	379	385	389
	Amps	4.28	4.34	4.41	4.48	4.54	4.58	4.60
	Lb/h	33.1	32.3	31.4	30.3	29.1	27.7	26.1

0	Btu/h	2450	2260	2060	1850	1640	1420	1200
	Watts	352	368	382	395	405	413	419
	Amps	4.39	4.46	4.55	4.64	4.71	4.77	4.80
	Lb/h	37.6	36.7	35.7	34.6	33.2	31.7	30.0
5	Btu/h	2770	2550	2320	2090	1860	1610	1360
	Watts	369	388	404	419	432	442	450
	Amps	4.51	4.60	4.71	4.81	4.90	4.98	5.03
	Lb/h	42.6	41.6	40.6	39.3	37.9	36.2	34.3
10	Btu/h	3110	2870	2620	2360	2100	1830	1540
	Watts	388	408	427	445	460	473	483
	Amps	4.64	4.76	4.88	5.00	5.11	5.21	5.27
	Lb/h	48.1	47.1	45.9	44.6	43.0	41.2	39.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.905482E+03	1.875973E+02	4.952801E+00	4.107076E+01
C2	8.557032E+01	-1.673824E-01	-6.879552E-03	8.605482E-01
C3	-1.748381E+01	2.190470E+00	-2.997824E-02	-2.426934E-02
C4	9.923248E-01	-2.975736E-03	1.492415E-04	1.276201E-02
C5	-2.373559E-01	4.469904E-02	3.942904E-04	2.763495E-03
C6	-2.245633E-03	1.091058E-03	3.920283E-04	-4.281217E-05
C7	3.028419E-03	2.433761E-04	3.911490E-06	6.137979E-05
C8	-4.885533E-03	1.919564E-04	1.431209E-06	-3.006781E-05
C9	-1.090217E-03	3.329095E-06	-2.718991E-07	-2.191785E-05
C10	-7.762631E-05	-3.532175E-05	-1.324716E-06	-2.484702E-06

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