



Performance Data Sheet

AE2415Z-FZ1B

General Information

Model	AE2415Z-FZ1B	Refrigerant	R-404A
Test Condition	EN12900 ASERCOM	Performance Test Voltage	220V ~ 50HZ
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	607	536	467	398	328	256	182
	Watts	172	174	177	178	178	176	172
	Amps	1.52	1.53	1.54	1.54	1.55	1.54	1.53
	Lb/h	9.11	8.58	7.98	7.30	6.53	5.65	4.65
-35	Btu/h	727	650	575	500	424	347	267
	Watts	186	190	192	194	195	193	190
	Amps	1.55	1.56	1.57	1.58	1.58	1.58	1.56
	Lb/h	11.0	10.4	9.82	9.15	8.39	7.53	6.56
-30	Btu/h	859	774	690	607	524	439	353
	Watts	200	204	208	211	212	212	210
	Amps	1.59	1.60	1.61	1.62	1.62	1.62	1.61
	Lb/h	13.0	12.4	11.8	11.1	10.4	9.50	8.54
-25	Btu/h	1010	909	815	722	629	535	439
	Watts	214	219	224	227	230	231	230
	Amps	1.63	1.64	1.65	1.66	1.67	1.67	1.66
	Lb/h	15.2	14.6	14.0	13.2	12.5	11.6	10.6
-20	Btu/h	1170	1060	952	847	743	637	530
	Watts	227	233	239	244	248	250	251
	Amps	1.66	1.68	1.70	1.71	1.72	1.72	1.72
	Lb/h	17.7	17.0	16.3	15.6	14.8	13.9	12.9
-15	Btu/h	1350	1220	1100	984	865	746	626
	Watts	240	248	255	262	267	271	273
	Amps	1.70	1.73	1.75	1.76	1.78	1.79	1.79
	Lb/h	20.4	19.7	19.0	18.1	17.3	16.3	15.3
-10	Btu/h	1550	1410	1270	1130	1000	865	730
	Watts	253	263	272	280	287	292	296
	Amps	1.75	1.77	1.80	1.82	1.85	1.86	1.87
	Lb/h	23.5	22.7	21.9	21.0	20.1	19.1	18.0
-5	Btu/h	1770	1610	1450	1300	1150	996	843
	Watts	266	278	289	299	308	315	321
	Amps	1.79	1.82	1.86	1.89	1.92	1.94	1.96
	Lb/h	27.0	26.1	25.2	24.2	23.2	22.1	21.0

0	Btu/h	2010	1830	1660	1480	1310	1140	968
	Watts	280	293	306	318	329	339	347
	Amps	1.84	1.88	1.92	1.96	2.00	2.03	2.06
	Lb/h	30.9	29.8	28.8	27.7	26.6	25.5	24.3
5	Btu/h	2280	2080	1880	1690	1490	1300	1110
	Watts	294	309	324	339	352	364	374
	Amps	1.88	1.94	1.99	2.04	2.08	2.13	2.16
	Lb/h	35.2	34.0	32.9	31.7	30.5	29.2	27.9
10	Btu/h	2580	2360	2130	1910	1690	1480	1260
	Watts	308	326	344	361	376	391	403
	Amps	1.93	2.00	2.06	2.12	2.18	2.23	2.28
	Lb/h	40.0	38.7	37.4	36.1	34.8	33.4	32.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.676178E+03	1.995070E+02	1.716782E+00	4.052297E+01
C2	8.825482E+01	-5.434966E-01	-3.695221E-03	1.068869E+00
C3	-2.451975E+01	2.736298E-01	-3.005043E-03	-1.524849E-01
C4	8.399479E-01	-2.548926E-02	-1.510636E-04	1.151270E-02
C5	-4.812775E-01	3.893454E-02	1.514689E-04	-3.690749E-03
C6	5.929520E-02	1.391162E-02	7.944352E-05	5.847326E-04
C7	2.639490E-03	1.582908E-04	5.427551E-08	5.476088E-05
C8	-4.063873E-03	4.007150E-04	2.373501E-06	-3.056377E-05
C9	2.750388E-04	2.220055E-05	1.443224E-07	7.139078E-06
C10	-1.595219E-04	-5.975254E-05	-2.904687E-07	-2.320312E-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



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Model	AE2415Z-FZ1B	Refrigerant	R-404A
Test Condition	EN12900 ASERCOM	Performance Test Voltage	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-40	Btu/h	564	440	314	182
	Watts (Power)	173	177	177	172
	Amps	1.53	1.54	1.55	1.53
	Lb/h	8.80	7.72	6.36	4.65
-35	Btu/h	781	634	487	335
	Watts (Power)	200	206	209	206
	Amps	1.59	1.61	1.61	1.60
	Lb/h	12.2	11.1	9.79	8.13
-30	Btu/h	1040	856	676	493
	Watts (Power)	225	235	241	242
	Amps	1.66	1.68	1.70	1.70
	Lb/h	16.3	15.1	13.6	12.0
-25	Btu/h	1350	1120	893	666
	Watts (Power)	250	265	276	282
	Amps	1.73	1.78	1.81	1.82
	Lb/h	21.2	19.8	18.2	16.4
-23.3	Btu/h	1460	1220	975	731
	Watts (Power)	259	275	289	296
	Amps	1.76	1.81	1.85	1.87
	Lb/h	23.1	21.6	19.9	18.1
-20	Btu/h	1720	1430	1150	867
	Watts (Power)	276	296	314	326
	Amps	1.82	1.88	1.94	1.98
	Lb/h	27.2	25.5	23.6	21.6
-15	Btu/h	2160	1800	1450	1110
	Watts (Power)	303	330	355	374
	Amps	1.91	2.01	2.09	2.16
	Lb/h	34.5	32.4	30.2	27.9
-10	Btu/h	2690	2250	1820	1400
	Watts (Power)	332	367	400	428
	Amps	2.02	2.15	2.27	2.38
	Lb/h	43.4	40.8	38.2	35.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.100808E+03	2.359717E+02	1.658903E+00	7.940650E+01
C2	2.280203E+02	7.213735E-01	-6.013505E-03	3.240934E+00
C3	-7.238505E+01	4.827812E+00	1.576812E-02	-4.625468E-01
C4	3.121076E+00	8.195699E-03	-2.264796E-04	5.116512E-02
C5	-2.344992E+00	2.138437E-01	1.012855E-03	-1.681537E-02
C6	1.710148E-01	2.878997E-02	1.820130E-04	1.913003E-03
C7	1.539351E-02	9.231519E-04	3.165348E-07	3.193655E-04
C8	-2.370051E-02	2.336970E-03	1.384226E-05	-1.782479E-04
C9	1.604026E-03	1.294736E-04	8.416882E-07	4.163510E-05
C10	-9.303317E-04	-3.484768E-04	-1.694013E-06	-1.353206E-05

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

Te = Evaporator Temperature

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