



AE3425Y-AA1A

General

Model	AE3425Y-AA1A	Unit of Measure	Celsius
Condition	ASHRAE(R-134a)	Voltage/Frequency	115V~60HZ
RETURN GAS	35°C (95°F) RETURN GAS	MotorType	RSIR

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-15	Btu/h	1440	1340	1240	1150	1050	951	850	745
	Watts (Power)	183	191	198	204	209	212	213	212
	Amps	2.58	2.63	2.67	2.71	2.74	2.76	2.76	2.75
	Lb/h	3.82	3.78	3.70	3.60	3.48	3.36	3.24	3.14
-10	Btu/h	1870	1740	1620	1490	1370	1250	1120	998
	Watts (Power)	201	210	218	226	232	237	241	242
	Amps	2.69	2.74	2.79	2.84	2.88	2.92	2.94	2.94
	Lb/h	5.05	4.97	4.85	4.69	4.50	4.31	4.12	3.94
-6.7	Btu/h	2200	2050	1900	1760	1620	1480	1330	1190
	Watts (Power)	213	223	232	241	249	256	261	265
	Amps	2.77	2.82	2.88	2.94	2.99	3.04	3.08	3.10
	Lb/h	6.01	5.91	5.75	5.57	5.35	5.12	4.88	4.65
-5	Btu/h	2390	2230	2070	1910	1760	1600	1450	1300
	Watts (Power)	219	229	239	249	258	266	272	277
	Amps	2.81	2.87	2.93	2.99	3.06	3.11	3.16	3.19
	Lb/h	6.54	6.43	6.27	6.07	5.83	5.58	5.33	5.07
0	Btu/h	3010	2810	2610	2410	2220	2030	1840	1650
	Watts (Power)	234	247	260	273	285	296	306	315
	Amps	2.92	2.99	3.08	3.16	3.25	3.33	3.41	3.48
	Lb/h	8.28	8.15	7.97	7.73	7.46	7.16	6.85	6.54
5	Btu/h	3740	3490	3240	3000	2760	2530	2290	2060
	Watts (Power)	246	262	278	295	311	326	341	355
	Amps	3.01	3.10	3.21	3.33	3.44	3.56	3.68	3.79
	Lb/h	10.3	10.1	9.93	9.68	9.38	9.05	8.69	8.33
7.2	Btu/h	4100	3820	3550	3280	3030	2770	2520	2270
	Watts (Power)	250	267	285	304	322	339	356	372
	Amps	3.04	3.14	3.26	3.39	3.53	3.67	3.80	3.93
	Lb/h	11.2	11.1	10.9	10.6	10.3	9.97	9.60	9.21
10	Btu/h	4590	4280	3970	3680	3390	3100	2820	2540
	Watts (Power)	253	273	293	314	334	355	375	394
	Amps	3.06	3.18	3.32	3.47	3.63	3.79	3.96	4.12
	Lb/h	12.5	12.4	12.2	11.9	11.6	11.2	10.8	10.4
15	Btu/h	5550	5180	4820	4460	4110	3770	3430	3100
	Watts (Power)	253	277	302	328	354	380	406	431
	Amps	3.06	3.22	3.40	3.60	3.80	4.01	4.23	4.44

	Lb/h	14.9	14.8	14.6	14.4	14.1	13.7	13.3	12.8
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.436383E+03	1.706487E+02	2.846175E+00	7.170721E+00
C2	1.952582E+02	6.551239E-01	1.062870E-02	3.556908E-01
C3	-5.418562E+01	1.336536E+00	-1.292094E-02	1.060903E-01
C4	2.961986E+00	-1.535439E-01	-1.278759E-03	3.522565E-03
C5	-2.158836E+00	3.866218E-02	-7.030901E-05	1.439939E-03
C6	2.697357E-01	3.645179E-02	6.549717E-04	-2.748950E-03
C7	9.192633E-03	-2.129268E-03	-1.827252E-05	-9.718995E-06
C8	-2.705010E-02	2.758407E-03	2.768791E-05	4.543061E-05
C9	5.078569E-03	1.092753E-03	1.289542E-05	-2.923891E-05
C10	-1.466708E-03	-3.503254E-04	-4.722680E-06	1.487077E-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

Tc = Condensing Temperature



Performance Data Sheet

AE3425Y-AA1A

General

Model	AE3425Y-AA1A	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-134a)	Voltage/Frequency	115V~60HZ
RETURN GAS	35°C (95°F) RETURN GAS	MotorType	RSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
5	Btu/h	1310	1160	1050	944	838
	Watts	199	201	204	207	209
	Amps	2.74	2.74	2.75	2.76	2.76
	Lb/h	15.9	14.7	13.9	13.2	12.4
10	Btu/h	1500	1350	1230	1120	997
	Watts	210	214	219	224	226
	Amps	2.79	2.82	2.84	2.86	2.87
	Lb/h	18.3	17.2	16.4	15.6	14.7
15	Btu/h	1720	1560	1430	1300	1170
	Watts	220	227	234	241	244
	Amps	2.85	2.89	2.93	2.97	2.99
	Lb/h	21.0	19.9	19.0	18.2	17.2
20	Btu/h	1950	1790	1640	1510	1350
	Watts	230	240	249	258	263
	Amps	2.91	2.97	3.03	3.08	3.11
	Lb/h	23.9	22.8	22.0	21.1	20.0
25	Btu/h	2210	2040	1880	1720	1550
	Watts	239	252	264	274	281
	Amps	2.97	3.05	3.13	3.19	3.23
	Lb/h	27.2	26.1	25.2	24.3	23.0
30	Btu/h	2500	2310	2140	1960	1770
	Watts	248	264	279	291	300
	Amps	3.02	3.13	3.23	3.31	3.37
	Lb/h	30.7	29.7	28.8	27.7	26.3
35	Btu/h	2810	2610	2420	2230	2000
	Watts	256	275	293	308	319
	Amps	3.08	3.21	3.33	3.43	3.50
	Lb/h	34.7	33.6	32.7	31.5	30.0
40	Btu/h	3160	2940	2730	2510	2260
	Watts	262	285	306	324	337
	Amps	3.12	3.28	3.43	3.55	3.64
	Lb/h	39.1	38.0	36.9	35.7	34.0
45	Btu/h	3530	3300	3070	2820	2550
	Watts	268	295	320	340	356
	Amps	3.17	3.36	3.53	3.67	3.78

	Lb/h	43.9	42.8	41.7	40.3	38.5
50	Btu/h	3950	3690	3440	3170	2860
	Watts	273	304	332	356	374
	Amps	3.21	3.42	3.62	3.79	3.92
	Lb/h	49.2	48.0	46.9	45.4	43.3
55	Btu/h	4400	4120	3840	3540	3200
	Watts	276	311	344	371	392
	Amps	3.24	3.49	3.71	3.91	4.06
	Lb/h	55.0	53.8	52.5	50.9	48.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.751880E+03	7.124785E+02	5.202923E+00	1.097656E+02
C2	-2.962651E+00	-7.157682E+00	-5.254982E-02	-2.232103E-01
C3	-1.665237E+02	-1.322445E+01	-6.271356E-02	-2.209094E+00
C4	7.217683E-01	-4.761027E-02	-2.466051E-04	5.126404E-03
C5	7.076674E-01	1.415921E-01	9.330858E-04	1.132677E-02
C6	1.217129E+00	1.096131E-01	5.167843E-04	1.694440E-02
C7	2.991478E-03	-1.289968E-04	-1.268432E-06	4.791290E-05
C8	-4.209955E-03	4.302301E-04	3.074234E-06	-1.918583E-05
C9	-3.406340E-03	-4.758867E-04	-3.009446E-06	-4.802101E-05
C10	-3.136680E-03	-2.979848E-04	-1.417519E-06	-4.461255E-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

Tc = Condensing Temperature



Performance Data Sheet

AE3425Y-AA1A

General

Model	AE3425Y-AA1A	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-134a)	Voltage/Frequency	115V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	MotorType	RSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
0	Btu/h	910	793	707	642	587
	Watts	185	186	187	191	200
	Amps	2.65	2.62	2.65	2.69	2.72
	Lb/h	13.9	12.7	12.1	11.7	11.5
5	Btu/h	1090	960	858	772	691
	Watts	196	200	203	209	219
	Amps	2.75	2.73	2.75	2.79	2.80
	Lb/h	16.6	15.4	14.6	14.1	13.6
10	Btu/h	1280	1140	1020	917	812
	Watts	210	216	221	228	240
	Amps	2.84	2.83	2.86	2.89	2.90
	Lb/h	19.5	18.4	17.5	16.8	16.0
15	Btu/h	1480	1330	1200	1070	945
	Watts	223	232	239	247	260
	Amps	2.91	2.92	2.96	3.00	3.01
	Lb/h	22.7	21.6	20.7	19.8	18.8
20	Btu/h	1690	1530	1380	1240	1090
	Watts	236	247	256	265	278
	Amps	2.96	3.00	3.06	3.12	3.13
	Lb/h	26.0	24.9	24.0	23.0	21.8
25	Btu/h	1900	1740	1580	1420	1240
	Watts	248	260	270	280	294
	Amps	3.01	3.08	3.17	3.25	3.28
	Lb/h	29.4	28.4	27.4	26.3	24.9
30	Btu/h	2120	1940	1770	1590	1400
	Watts	256	270	281	292	305
	Amps	3.04	3.16	3.29	3.39	3.44
	Lb/h	32.9	31.9	30.9	29.7	28.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.182920E+03	-5.554183E+02	1.309235E+01	9.333887E+01
C2	8.322673E+00	-9.096665E+00	-5.238764E-02	-3.642495E-01
C3	-1.096291E+02	1.993035E+01	-2.579725E-01	-1.757663E+00
C4	1.257779E-01	1.074194E-01	-1.977379E-03	2.894938E-03
C5	7.201382E-01	1.597597E-01	1.430435E-03	1.713731E-02
C6	7.476776E-01	-1.788374E-01	2.089476E-03	1.276022E-02

C7	-3.633207E-03	-1.734128E-03	4.155012E-06	-8.324080E-05
C8	1.772508E-03	-4.207321E-04	1.508825E-05	3.814247E-05
C9	-4.593032E-03	-4.928800E-04	-6.710830E-06	-8.425425E-05
C10	-1.786684E-03	5.359683E-04	-5.543222E-06	-3.130277E-05

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

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

AE3425Y-AA1A

General

Model	AE3425Y-AA1A	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-134a)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	18.3°C (65°F) RETURN GAS	MotorType	RSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
5	Btu/h	1240	1140	1020	901	788
	Watts	193	199	203	205	207
	Amps	2.70	2.72	2.74	2.76	2.75
	Lb/h	16.3	15.7	14.8	13.7	12.7
10	Btu/h	1430	1320	1190	1070	953
	Watts	206	214	219	223	227
	Amps	2.79	2.81	2.85	2.87	2.88
	Lb/h	18.9	18.2	17.3	16.4	15.4
15	Btu/h	1640	1520	1380	1250	1130
	Watts	218	228	235	241	247
	Amps	2.87	2.91	2.95	2.99	3.01
	Lb/h	21.7	21.1	20.2	19.2	18.3
20	Btu/h	1880	1740	1590	1450	1320
	Watts	229	241	250	258	266
	Amps	2.94	2.99	3.05	3.10	3.14
	Lb/h	24.9	24.2	23.3	22.3	21.4
25	Btu/h	2140	1980	1820	1660	1520
	Watts	240	253	265	275	285
	Amps	3.01	3.07	3.14	3.21	3.26
	Lb/h	28.4	27.6	26.7	25.7	24.8
30	Btu/h	2430	2250	2070	1890	1730
	Watts	250	265	279	292	304
	Amps	3.06	3.14	3.23	3.32	3.39
	Lb/h	32.4	31.5	30.4	29.3	28.4
35	Btu/h	2740	2540	2330	2140	1960
	Watts	258	276	292	307	323
	Amps	3.11	3.21	3.32	3.43	3.52
	Lb/h	36.7	35.7	34.5	33.4	32.4
40	Btu/h	3090	2860	2630	2400	2200
	Watts	266	286	305	323	341
	Amps	3.16	3.28	3.41	3.54	3.65
	Lb/h	41.5	40.3	39.0	37.7	36.7
45	Btu/h	3470	3200	2940	2690	2470
	Watts	273	296	317	338	358
	Amps	3.20	3.34	3.49	3.65	3.79

	Lb/h	46.8	45.4	43.9	42.5	41.3
50	Btu/h	3870	3580	3280	3000	2750
	Watts	279	304	328	352	376
	Amps	3.24	3.40	3.58	3.76	3.93
	Lb/h	52.6	51.0	49.3	47.7	46.4
55	Btu/h	4310	3980	3650	3340	3050
	Watts	284	312	339	366	392
	Amps	3.28	3.46	3.67	3.87	4.07
	Lb/h	59.0	57.1	55.1	53.3	51.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-9.641406E+02	-1.876514E+02	5.938709E+00	-2.972137E+01
C2	6.290582E+01	1.306030E+00	1.996313E-02	6.247613E-01
C3	6.558372E+01	8.068571E+00	-9.012447E-02	1.176610E+00
C4	1.028704E+00	-4.096837E-02	-5.826339E-04	1.062085E-02
C5	-5.152901E-01	3.133910E-03	-9.292654E-05	-4.538123E-03
C6	-6.157811E-01	-5.756363E-02	8.010186E-04	-9.942423E-03
C7	1.724512E-03	-2.672410E-05	1.110796E-06	3.892326E-05
C8	-6.269128E-03	2.574582E-04	3.651214E-06	-5.712626E-05
C9	2.028163E-03	1.200867E-04	1.021637E-06	2.579886E-05
C10	1.633704E-03	1.358091E-04	-2.334036E-06	2.552895E-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

Tc = Condensing Temperature



Performance Data Sheet

AE3425Y-AA1A

General

Model	AE3425Y-AA1A	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-513A)	Voltage/Frequency	115V~60HZ
RETURN GAS	35°C (95°F) RETURN GAS	MotorType	RSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
		80	90	100	110	120	130	140	150
5	Btu/h	1820	1540	1340	1180	1070	962	853	721
	Watts	223	215	213	215	218	222	223	221
	Amps	2.90	2.86	2.85	2.85	2.87	2.88	2.88	2.86
	Lb/h	23.6	20.4	18.2	16.9	15.9	15.1	14.2	12.7
10	Btu/h	2010	1740	1530	1380	1250	1140	1020	866
	Watts	228	224	225	229	234	239	242	240
	Amps	2.91	2.90	2.91	2.93	2.96	2.98	2.99	2.97
	Lb/h	26.1	23.1	21.0	19.7	18.7	17.9	16.8	15.3
15	Btu/h	2230	1960	1750	1590	1450	1330	1190	1020
	Watts	232	231	236	243	250	257	261	260
	Amps	2.92	2.94	2.97	3.01	3.05	3.09	3.11	3.10
	Lb/h	28.9	26.0	24.1	22.8	21.8	20.9	19.7	18.0
20	Btu/h	2470	2200	1990	1820	1670	1530	1380	1180
	Watts	235	238	246	256	267	275	281	281
	Amps	2.93	2.97	3.03	3.09	3.15	3.20	3.24	3.24
	Lb/h	32.1	29.3	27.4	26.2	25.2	24.2	22.9	20.9
25	Btu/h	2750	2470	2250	2070	1920	1760	1580	1360
	Watts	237	244	256	269	282	293	301	302
	Amps	2.93	3.01	3.09	3.18	3.26	3.32	3.37	3.38
	Lb/h	35.6	32.9	31.1	29.9	28.9	27.8	26.4	24.2
30	Btu/h	3050	2770	2540	2350	2180	2000	1800	1560
	Watts	237	250	265	282	298	312	321	323
	Amps	2.93	3.04	3.15	3.26	3.36	3.45	3.50	3.53
	Lb/h	39.5	37.0	35.2	34.0	33.0	31.8	30.2	27.8
35	Btu/h	3390	3100	2860	2660	2470	2270	2040	1770
	Watts	236	254	273	294	313	329	341	345
	Amps	2.93	3.06	3.20	3.34	3.46	3.57	3.65	3.68
	Lb/h	43.8	41.4	39.8	38.5	37.4	36.1	34.4	31.8
40	Btu/h	3760	3470	3210	2990	2780	2560	2310	2010
	Watts	234	256	281	305	328	347	361	367
	Amps	2.91	3.08	3.25	3.42	3.57	3.69	3.79	3.84
	Lb/h	48.7	46.4	44.8	43.5	42.3	40.9	39.0	36.2
45	Btu/h	4180	3870	3600	3360	3120	2880	2600	2260
	Watts	231	258	287	315	342	364	381	389
	Amps	2.89	3.10	3.30	3.49	3.67	3.82	3.93	4.00

	Lb/h	54.1	51.9	50.3	49.0	47.8	46.2	44.1	41.0
50	Btu/h	4630	4300	4020	3760	3500	3220	2910	2550
	Watts	225	258	292	325	355	381	400	411
	Amps	2.86	3.10	3.34	3.57	3.77	3.94	4.08	4.17
	Lb/h	60.0	57.9	56.3	55.0	53.7	52.0	49.7	46.4
55	Btu/h	5120	4780	4480	4190	3910	3600	3260	2860
	Watts	218	256	295	333	368	397	419	433
	Amps	2.82	3.10	3.37	3.63	3.87	4.07	4.22	4.33
	Lb/h	66.6	64.6	63.0	61.7	60.2	58.4	55.8	52.3

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.914040E+03	7.619503E+02	5.416742E+00	1.258083E+02
C2	-3.017545E+00	-7.654684E+00	-5.470940E-02	-2.558333E-01
C3	-1.696091E+02	-1.414271E+01	-6.529083E-02	-2.531962E+00
C4	7.351416E-01	-5.091615E-02	-2.567396E-04	5.875648E-03
C5	7.207795E-01	1.514237E-01	9.714318E-04	1.298222E-02
C6	1.239681E+00	1.172242E-01	5.380220E-04	1.942089E-02
C7	3.046906E-03	-1.379538E-04	-1.320559E-06	5.491555E-05
C8	-4.287959E-03	4.601036E-04	3.200572E-06	-2.198991E-05
C9	-3.469455E-03	-5.089305E-04	-3.133122E-06	-5.503947E-05
C10	-3.194798E-03	-3.186757E-04	-1.475773E-06	-5.113285E-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

Tc = Condensing Temperature