

General

AE2415Z-AA1A

Model AE2415Z-AA1A Unit of Measure Fahrenheit  
 Condition ASHRAE(R-404A) Voltage/Frequency 115V~60HZ  
 RETURN GAS 32.2°C (90°F) RETURN GAS MotorType CSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
	100	110	120	130	140	
-40	Btu/h	695				
	Watts	218				
	Amps	3.61				
	Lb/h	9.73				
-35	Btu/h	856	835			
	Watts	242	239			
	Amps	3.74	3.72			
	Lb/h	11.6	11.6			
-30	Btu/h	1060	1000	898		
	Watts	265	265	262		
	Amps	3.85	3.85	3.84		
	Lb/h	14.1	13.7	12.7		
-25	Btu/h	1300	1210	1080	919	
	Watts	286	289	288	285	
	Amps	3.97	3.98	3.98	3.97	
	Lb/h	17.1	16.5	15.2	13.5	
-20	Btu/h	1580	1460	1290	1110	934
	Watts	307	312	314	313	308
	Amps	4.08	4.11	4.12	4.12	4.10
	Lb/h	20.6	19.8	18.3	16.5	14.6
-15	Btu/h	1890	1730	1540	1340	1150
	Watts	328	334	338	340	337
	Amps	4.20	4.24	4.27	4.28	4.27
	Lb/h	24.6	23.5	22.0	20.1	18.2
-10	Btu/h	2230	2040	1820	1600	1390
	Watts	347	356	362	366	366
	Amps	4.32	4.38	4.42	4.45	4.45
	Lb/h	28.9	27.7	26.0	24.1	22.3
-5	Btu/h	2580	2360	2120	1880	1660
	Watts	366	377	386	392	394
	Amps	4.46	4.53	4.59	4.63	4.65
	Lb/h	33.6	32.2	30.4	28.5	26.7
0	Btu/h	2960	2710	2450	2190	1950
	Watts	385	398	409	417	421
	Amps	4.60	4.69	4.76	4.82	4.86
	Lb/h	38.5	37.0	35.1	33.2	31.6
5	Btu/h	3340	3070	2780	2510	2260
	Watts	404	419	432	442	448
	Amps	4.76	4.86	4.96	5.03	5.08
	Lb/h	43.7	42.0	40.1	38.3	36.7
10	Btu/h	3730	3430	3130	2840	2580
	Watts	423	440	454	467	475
	Amps	4.93	5.06	5.17	5.26	5.33
	Lb/h	48.9	47.2	45.3	43.5	42.1

	COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.477837E+02	3.313847E+02	5.006472E+00	-1.448667E+01	
C2	1.923167E+02	8.711185E-01	-6.954169E-03	2.156766E+00	
C3	1.051000E+02	-1.583671E+00	-3.030309E-02	1.600289E+00	
C4	-1.263849E-02	1.023939E-02	1.508604E-04	-1.171568E-03	
C5	-1.714940E+00	2.012642E-02	3.985643E-04	-1.959972E-02	
C6	-1.115927E+00	3.459585E-02	3.962764E-04	-1.475352E-02	
C7	-6.053784E-03	2.231474E-04	3.953775E-06	-7.856333E-05	
C8	2.563334E-03	-1.164733E-04	1.446700E-06	5.209889E-05	
C9	5.511535E-03	8.995947E-05	-2.748492E-07	8.104269E-05	
C10	3.156785E-03	-1.335391E-04	-1.339071E-06	4.052306E-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

$T_c$  = Condensing Temperature

# AE2415Z-AA1A

## General

# Performance Data Sheet

**Model** AE2415Z-AA1A      **Unit of Measure** Fahrenheit  
**Condition** ASHRAE(R-448A)      **Voltage/Frequency** 115V~ 60HZ  
**RETURN GAS** 32.2°C (90°F) RETURN GAS      **MotorType** CSIR

## Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
	100	110	120	130	140	
-40	Btu/h	619				
	Watts	192				
	Amps	3.41				
	Lb/h	6.97				
	Btu/h	762	743			
-35	Watts	214	212			
	Amps	3.53	3.51			
	Lb/h	8.30	8.28			
	Btu/h	944	893	800		
	Watts	234	234	232		
-30	Amps	3.64	3.63	3.62		
	Lb/h	10.1	9.84	9.07		
	Btu/h	1160	1080	959		
	Watts	253	255	255		
	Amps	3.75	3.76	3.76		
-25	Lb/h	12.2	11.8	10.9		
	Btu/h	1410	1300	1150	992	
	Watts	272	276	277	277	
	Amps	3.85	3.88	3.89	3.89	
	Lb/h	14.8	14.2	13.1	11.8	
-15	Btu/h	1690	1540	1380	1200	
	Watts	290	295	299	300	
	Amps	3.96	4.00	4.03	4.04	
	Lb/h	17.6	16.9	15.7	14.4	
	Btu/h	1980	1810	1620	1430	1240
-10	Watts	307	315	320	324	324
	Amps	4.08	4.13	4.17	4.20	4.20
	Lb/h	20.7	19.8	18.6	17.3	15.9
	Btu/h	2300	2110	1890	1680	1480
	Watts	324	333	341	346	348
-5	Amps	4.21	4.27	4.33	4.37	4.39
	Lb/h	24.1	23.0	21.8	20.4	19.1
	Btu/h	2630	2410	2180	1950	1740
	Watts	341	352	361	369	373
	Amps	4.34	4.42	4.50	4.55	4.58
0	Lb/h	27.6	26.5	25.2	23.8	22.6
	Btu/h	2980	2730	2480	2230	2010
	Watts	358	370	382	391	397
	Amps	4.49	4.59	4.68	4.75	4.80
	Lb/h	31.3	30.1	28.7	27.4	26.3
5	Btu/h	3330	3060	2790	2530	2300
	Watts	374	389	402	413	420
	Amps	4.66	4.77	4.88	4.97	5.03
	Lb/h	35.0	33.8	32.4	31.2	30.2

	COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.989034E+02	2.929946E+02	4.725202E+00	-1.037512E+01	
C2	1.713242E+02	7.702294E-01	-6.563201E-03	1.544638E+00	
C3	9.362775E+01	-1.400203E+00	-2.860046E-02	1.146099E+00	
C4	-1.125997E-02	9.053366E-03	1.423853E-04	-8.390379E-04	
C5	-1.527745E+00	1.779436E-02	3.761674E-04	-1.403697E-02	
C6	-9.941168E-01	3.058799E-02	3.740119E-04	-1.056622E-02	
C7	-5.392995E-03	1.972919E-04	3.731962E-06	-5.626389E-05	
C8	2.283541E-03	-1.029814E-04	1.365431E-06	3.731218E-05	
C9	4.909920E-03	7.954000E-05	-2.593845E-07	5.804134E-05	
C10	2.812203E-03	-1.180689E-04	-1.263837E-06	2.902192E-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

# AE2415Z-AA1A

## General

# Performance Data Sheet

**Model** AE2415Z-AA1A      **Unit of Measure** Fahrenheit  
**Condition** ASHRAE(R-449A)      **Voltage/Frequency** 115V~60HZ  
**RETURN GAS** 32.2°C (90°F) RETURN GAS      **MotorType** CSIR

## Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
	100	110	120	130	140	
-40	Btu/h	619				
	Watts	192				
	Amps	3.41				
	Lb/h	6.97				
	Btu/h	762	743			
-35	Watts	214	212			
	Amps	3.53	3.51			
	Lb/h	8.30	8.28			
	Btu/h	944	893	800		
	Watts	234	234	232		
-30	Amps	3.64	3.63	3.62		
	Lb/h	10.1	9.84	9.07		
	Btu/h	1160	1080	959		
	Watts	253	255	255		
	Amps	3.75	3.76	3.76		
-25	Lb/h	12.2	11.8	10.9		
	Btu/h	1410	1300	1150	992	
	Watts	272	276	277	277	
	Amps	3.85	3.88	3.89	3.89	
	Lb/h	14.8	14.2	13.1	11.8	
-15	Btu/h	1690	1540	1380	1200	
	Watts	290	295	299	300	
	Amps	3.96	4.00	4.03	4.04	
	Lb/h	17.6	16.9	15.7	14.4	
	Btu/h	1980	1810	1620	1430	1240
-10	Watts	307	315	320	324	324
	Amps	4.08	4.13	4.17	4.20	4.20
	Lb/h	20.7	19.8	18.6	17.3	15.9
	Btu/h	2300	2110	1890	1680	1480
	Watts	324	333	341	346	348
-5	Amps	4.21	4.27	4.33	4.37	4.39
	Lb/h	24.1	23.0	21.8	20.4	19.1
	Btu/h	2630	2410	2180	1950	1740
	Watts	341	352	361	369	373
	Amps	4.34	4.42	4.50	4.55	4.58
0	Lb/h	27.6	26.5	25.2	23.8	22.6
	Btu/h	2980	2730	2480	2230	2010
	Watts	358	370	382	391	397
	Amps	4.49	4.59	4.68	4.75	4.80
	Lb/h	31.3	30.1	28.7	27.4	26.3
5	Btu/h	3330	3060	2790	2530	2300
	Watts	374	389	402	413	420
	Amps	4.66	4.77	4.88	4.97	5.03
	Lb/h	35.0	33.8	32.4	31.2	30.2

	COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.989034E+02	2.929946E+02	4.725202E+00	-1.037512E+01	
C2	1.713242E+02	7.702294E-01	-6.563201E-03	1.544638E+00	
C3	9.362775E+01	-1.400203E+00	-2.860046E-02	1.146099E+00	
C4	-1.125997E-02	9.053366E-03	1.423853E-04	-8.390379E-04	
C5	-1.527745E+00	1.779436E-02	3.761674E-04	-1.403697E-02	
C6	-9.941168E-01	3.058799E-02	3.740119E-04	-1.056622E-02	
C7	-5.392995E-03	1.972919E-04	3.731962E-06	-5.626389E-05	
C8	2.283541E-03	-1.029814E-04	1.365431E-06	3.731218E-05	
C9	4.909920E-03	7.954000E-05	-2.593845E-07	5.804134E-05	
C10	2.812203E-03	-1.180689E-04	-1.263837E-06	2.902192E-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

# AE2415Z-AA1A

## General

# Performance Data Sheet

**Model** AE2415Z-AA1A      **Unit of Measure** Fahrenheit  
**Condition** ASHRAE(R-452A)      **Voltage/Frequency** 115V~ 60HZ  
**RETURN GAS** 32.2°C (90°F) RETURN GAS      **MotorType** CSIR

## Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
	100	110	120	130	140	
-40	Btu/h	610				
	Watts	197				
	Amps	3.41				
	Lb/h	8.56				
	Btu/h	751	733			
-35	Watts	219	217			
	Amps	3.53	3.51			
	Lb/h	10.2	10.2			
	Btu/h	931	880	788		
	Watts	240	240	238		
-30	Amps	3.64	3.63	3.62		
	Lb/h	12.4	12.1	11.1		
	Btu/h	1140	1060	946	807	
	Watts	260	262	262	259	
	Amps	3.75	3.76	3.76	3.74	
-25	Lb/h	15.0	14.5	13.4	11.9	
	Btu/h	1390	1280	1140	977	820
	Watts	279	283	285	284	279
	Amps	3.85	3.88	3.89	3.89	3.87
	Lb/h	18.1	17.4	16.1	14.5	12.9
-15	Btu/h	1660	1520	1360	1180	1010
	Watts	297	303	307	308	306
	Amps	3.96	4.00	4.03	4.04	4.03
	Lb/h	21.6	20.7	19.3	17.7	16.0
	Btu/h	1950	1790	1600	1400	1220
-10	Watts	315	323	329	332	332
	Amps	4.08	4.13	4.17	4.20	4.20
	Lb/h	25.4	24.3	22.9	21.2	19.6
	Btu/h	2270	2070	1860	1650	1460
	Watts	332	342	350	355	357
-5	Amps	4.21	4.27	4.33	4.37	4.39
	Lb/h	29.5	28.3	26.7	25.1	23.5
	Btu/h	2590	2380	2150	1920	1710
	Watts	350	361	371	378	382
	Amps	4.34	4.42	4.50	4.55	4.58
0	Lb/h	33.9	32.5	30.9	29.2	27.8
	Btu/h	2930	2690	2440	2200	1990
	Watts	367	380	392	401	407
	Amps	4.49	4.59	4.68	4.75	4.80
	Lb/h	38.4	36.9	35.3	33.6	32.3
5	Btu/h	3280	3010	2750	2490	2270
	Watts	384	399	412	423	431
	Amps	4.66	4.77	4.88	4.97	5.03
	Lb/h	43.0	41.5	39.8	38.3	37.0

	COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.931272E+02	3.006001E+02	4.725202E+00	-1.273751E+01	
C2	1.688421E+02	7.901962E-01	-6.563201E-03	1.896344E+00	
C3	9.227122E+01	-1.436548E+00	-2.860046E-02	1.407060E+00	
C4	-1.109631E-02	9.287983E-03	1.423853E-04	-1.030057E-03	
C5	-1.505611E+00	1.825672E-02	3.761674E-04	-1.723312E-02	
C6	-9.797136E-01	3.138199E-02	3.740119E-04	-1.297209E-02	
C7	-5.314821E-03	2.024248E-04	3.731962E-06	-6.907524E-05	
C8	2.250454E-03	-1.056513E-04	1.365431E-06	4.580771E-05	
C9	4.838787E-03	8.160271E-05	-2.593845E-07	7.125705E-05	
C10	2.771459E-03	-1.211337E-04	-1.263837E-06	3.563007E-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

# AE2415Z-AA1A

## General

# Performance Data Sheet

**Model** AE2415Z-AA1A      **Unit of Measure** Celsius  
**Condition** EN12900(R-404A)      **Voltage/Frequency** 115V~ 60HZ  
**RETURN GAS** 20°C (68°F) RETURN GAS      **MotorType** CSIR

## Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)						
	30	35	40	45	50	55	60
-40	Btu/h	1110	986	861	739		
	Watts (Power)	228	229	228	225		
	Amps	3.68	3.68	3.68	3.66		
	Lb/h	11.7	10.9	10.1	9.31		
-35	Btu/h	1500	1350	1200	1050	904	
	Watts (Power)	260	263	264	264	262	
	Amps	3.83	3.84	3.85	3.84	3.83	
	Lb/h	15.8	15.0	14.1	13.2	12.3	
-30	Btu/h	1970	1790	1610	1430	1250	1070
	Watts (Power)	291	297	301	303	304	303
	Amps	4.00	4.02	4.04	4.06	4.06	4.04
	Lb/h	20.8	20.0	19.1	18.1	17.0	15.9
-25	Btu/h	2530	2310	2090	1880	1660	1430
	Watts (Power)	323	331	338	344	347	350
	Amps	4.18	4.23	4.27	4.30	4.33	4.34
	Lb/h	26.9	26.0	25.0	23.9	22.8	21.5
-23.3	Btu/h	2740	2510	2280	2050	1810	1570
	Watts (Power)	334	343	351	358	363	366
	Amps	4.25	4.30	4.35	4.40	4.43	4.45
	Lb/h	29.2	28.3	27.3	26.1	24.9	23.6
-20	Btu/h	3190	2930	2670	2400	2130	1860
	Watts (Power)	354	366	377	385	393	399
	Amps	4.38	4.46	4.52	4.58	4.63	4.68
	Lb/h	34.1	33.1	32.0	30.9	29.6	28.2
-15	Btu/h	3960	3650	3330	3010	2690	2360
	Watts (Power)	387	402	416	429	441	451
	Amps	4.60	4.71	4.81	4.90	4.98	5.05
	Lb/h	42.6	41.5	40.3	39.1	37.6	36.1
-10	Btu/h	4840	4470	4090	3710	3320	2930
	Watts (Power)	420	440	458	475	491	506
	Amps	4.84	4.98	5.11	5.24	5.36	5.47
	Lb/h	52.4	51.3	50.0	48.6	47.0	45.4

	COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	9.923219E+03	2.740000E+02	3.888872E+00	8.230294E+01	
C2	3.246546E+02	1.611055E+00	-3.948984E-03	2.837209E+00	
C3	-9.635701E+01	8.657155E+00	5.012578E-02	-1.191431E-01	
C4	3.440443E+00	-3.136583E-03	-3.022769E-04	3.502593E-02	
C5	-2.821517E+00	1.888939E-01	1.974779E-03	-1.475234E-03	
C6	-7.881999E-02	-5.466643E-02	-9.617313E-07	-2.075411E-03	
C7	7.701786E-03	5.718142E-04	-1.220023E-08	1.448547E-04	
C8	-2.926445E-02	1.668986E-03	2.128257E-05	-4.039513E-05	
C9	-4.309789E-03	3.090733E-04	2.362034E-07	-5.240413E-05	
C10	-3.812404E-04	2.529532E-04	-1.244004E-06	-7.672634E-06	

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

Te = Evaporator Temperature

Tc = Condensing Temperature

# AE2415Z-AA1A

## General

# Performance Data Sheet

**Model** AE2415Z-AA1A      **Unit of Measure** Fahrenheit  
**Condition** EN12900(R-404A)      **Voltage/Frequency** 115V~ 60HZ  
**RETURN GAS** 20°C (68°F) RETURN GAS      **MotorType** CSIR

## Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
	80	90	100	110	120	130	140	150	
-40	Btu/h	837	732	632	535	441	350	261	174
	Watts	219	220	219	217	212	205	195	183
	Amps	3.64	3.60	3.57	3.55	3.51	3.47	3.39	3.29
	Lb/h	12.6	11.6	10.7	9.80	8.90	7.99	7.06	6.08
-35	Btu/h	973	866	762	660	560	462	365	268
	Watts	236	239	240	239	236	230	222	211
	Amps	3.74	3.71	3.70	3.68	3.66	3.62	3.56	3.47
	Lb/h	14.7	13.8	12.9	12.0	11.2	10.2	9.24	8.19
-30	Btu/h	1120	1010	901	791	683	575	467	359
	Watts	253	258	260	261	259	255	249	240
	Amps	3.83	3.82	3.81	3.81	3.80	3.77	3.72	3.64
	Lb/h	17.0	16.2	15.3	14.4	13.5	12.6	11.5	10.4
-25	Btu/h	1290	1170	1050	932	813	693	572	449
	Watts	270	276	280	283	283	281	276	269
	Amps	3.92	3.92	3.93	3.94	3.94	3.92	3.89	3.82
	Lb/h	19.6	18.8	17.9	17.0	16.1	15.1	14.0	12.7
-20	Btu/h	1480	1350	1220	1080	951	817	680	541
	Watts	286	294	300	304	306	306	303	298
	Amps	4.00	4.02	4.04	4.06	4.08	4.08	4.05	4.00
	Lb/h	22.4	21.6	20.8	19.9	18.9	17.8	16.6	15.3
-15	Btu/h	1680	1540	1400	1250	1100	950	795	637
	Watts	302	312	320	326	330	332	331	327
	Amps	4.09	4.12	4.16	4.19	4.22	4.24	4.23	4.18
	Lb/h	25.6	24.8	24.0	23.0	22.0	20.8	19.5	18.0
-10	Btu/h	1910	1760	1600	1430	1260	1090	919	739
	Watts	318	330	340	348	354	358	359	358
	Amps	4.18	4.22	4.28	4.33	4.37	4.40	4.41	4.38
	Lb/h	29.1	28.4	27.5	26.5	25.3	24.1	22.6	21.0
-5	Btu/h	2170	1990	1810	1630	1440	1250	1050	849
	Watts	335	349	361	371	379	385	389	389
	Amps	4.28	4.34	4.41	4.48	4.54	4.58	4.60	4.58
	Lb/h	33.1	32.3	31.4	30.3	29.1	27.7	26.1	24.4
0	Btu/h	2450	2260	2060	1850	1640	1420	1200	970
	Watts	352	368	382	395	405	413	419	422
	Amps	4.39	4.46	4.55	4.64	4.71	4.77	4.80	4.81
	Lb/h	37.6	36.7	35.7	34.6	33.2	31.7	30.0	28.1
5	Btu/h	2770	2550	2320	2090	1860	1610	1360	1100
	Watts	369	388	404	419	432	442	450	455
	Amps	4.51	4.60	4.71	4.81	4.90	4.98	5.03	5.05
	Lb/h	42.6	41.6	40.6	39.3	37.9	36.2	34.3	32.2
10	Btu/h	3110	2870	2620	2360	2100	1830	1540	1250
	Watts	388	408	427	445	460	473	483	490
	Amps	4.64	4.76	4.88	5.00	5.11	5.21	5.27	5.31
	Lb/h	48.1	47.1	45.9	44.6	43.0	41.2	39.1	36.8

	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	

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

Te = Evaporator Temperature

Tc = Condensing Temperature