

Model: AE2425Z-AA3C

Product Description

Type:	Reciprocating Compressors
Application:	LBP - Low Back Pressure
ProductDescription:	R-404A/R-407A/R-448A/R-449A/R-452A
Voltage/Frequency:	115V ~ 60Hz
Version:	N/A



Product Specifications

Performance

		Refrigeration Capacity			Input Power	(E) Efficiency			EVAP		AMBIENT	RETURN	LIQUID
Condition	Test Voltage	(R) Btu/h	(R) kcal/h	(R) W	(I) W	(E) Btu/Wh	(E) kcal/Wh	W/W	TEMP	Condition	TEMP	GAS	TEMP
ASHRAE (R-407A)	115V ~ 60HZ	1983	500	581	472	4.2	1.06	1.23	-23°C (-10°F)	54°C (130°F)	32°C (90°F)	32°C (90°F)	32°C (90°F)
ASHRAE (R-449A)	115V ~ 60HZ	2386	602	699	501	4.77	1.2	1.4	-23°C (-10°F)	54°C (130°F)	32°C (90°F)	32°C (90°F)	32°C (90°F)
ASHRAE (R-448A)	115V ~ 60HZ	2386	602	699	501	4.77	1.2	1.4	-23°C (-10°F)	54°C (130°F)	32°C (90°F)	32°C (90°F)	32°C (90°F)
ASHRAE (R-452A)	115V ~ 60HZ	2434	614	713	532	4.58	1.15	1.34	-23°C (-10°F)	54°C (130°F)	32°C (90°F)	32°C (90°F)	32°C (90°F)
ASHRAE (R-404A)	115V ~ 60HZ	2650	668	777	588	4.51	1.14	1.32	-23°C (-10°F)	54°C (130°F)	32°C (90°F)	32°C (90°F)	32°C (90°F)

General

Evaporating Temp. Range:	-40°C to -10°C (-40°F to 14°F)
Motor Torque:	High Start Torque (HST)
Compressor Cooling:	Fan

Mechanical

Weight:	11
Weight Unit of Measure:	KG
Displacement (cc):	12.01
Oil Type:	Polyolester
Viscosity (cSt):	32
Oil Charge (cc):	386.65

Electrical

Voltage Range (50 Hz):	
Voltage Range (60 Hz):	103-127
Locked Rotor Amps (LRA):	39
Rated Load Amps (RLA 50 Hz):	0
Rated Load Amps (RLA 60 Hz):	5.87
Max. Continuous Current (MCC in Amps):	10.09
Motor Resistance (Ohm) - Main:	.94
Motor Resistance (Ohm) - Start:	3.89
MotorType:	CSR

Overload Type:

Relay Type:

Agency Approval

CE Listed, cURus Recognized

AE2425Z-AA3C

General

Model	AE2425Z-AA3C	Unit of Measure	Fahrenheit
Condition	ASHRAE (R-404A)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	32.2°C (90°F) RETURN GAS	Motor Type	CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
-40	Btu/h	1380				
	Watts	366				
	Amps	4.63				
	Lb/h	16.9				
-35	Btu/h	1660	1470			
	Watts	393	389			
	Amps	4.77	4.73			
	Lb/h	20.7	19.4			
-30	Btu/h	1970	1760	1550		
	Watts	422	422	418		
	Amps	4.93	4.91	4.88		
	Lb/h	24.9	23.5	21.8		
-25	Btu/h	2310	2080	1850	1620	
	Watts	453	456	456	453	
	Amps	5.10	5.10	5.09	5.08	
	Lb/h	29.5	28.0	26.2	24.3	
-20	Btu/h	2680	2440	2190	1930	1690
	Watts	486	492	496	497	495
	Amps	5.28	5.30	5.32	5.33	5.33
	Lb/h	34.5	32.9	31.0	29.0	26.9
-15	Btu/h	3100	2830	2550	2280	2000
	Watts	520	530	537	542	544
	Amps	5.48	5.52	5.56	5.59	5.62
	Lb/h	39.9	38.2	36.3	34.2	32.0
-10	Btu/h	3550	3250	2950	2650	2350
	Watts	557	569	580	588	594
	Amps	5.69	5.76	5.82	5.87	5.92
	Lb/h	45.9	44.1	42.1	39.9	37.6
-5	Btu/h	4040	3720	3390	3060	2730
	Watts	595	610	624	635	645
	Amps	5.92	6.01	6.09	6.16	6.23
	Lb/h	52.4	50.5	48.4	46.2	43.8
0	Btu/h	4570	4220	3860	3500	3140
	Watts	634	652	669	684	697
	Amps	6.16	6.27	6.37	6.47	6.56

	Lb/h	59.4	57.5	55.3	53.0	50.5
5	Btu/h	5150	4760	4370	3970	3580
	Watts	675	695	715	733	750
	Amps	6.42	6.55	6.67	6.79	6.90
	Lb/h	67.1	65.1	62.8	60.4	57.9
10	Btu/h	5770	5350	4920	4490	4060
	Watts	716	739	762	783	803
	Amps	6.69	6.84	6.99	7.12	7.25
	Lb/h	75.4	73.3	71.0	68.5	65.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.383764E+03	4.156636E+02	4.708891E+00	5.431385E+01
C2	1.713284E+02	5.697894E+00	7.119672E-03	1.630595E+00
C3	7.870178E+00	2.177974E+00	1.790206E-02	3.730981E-01
C4	1.329537E+00	4.827069E-02	2.901431E-04	1.224475E-02
C5	-5.843154E-01	-5.422249E-03	4.273527E-04	-1.658748E-03
C6	-3.559911E-01	3.191863E-03	-3.363333E-05	-4.131326E-03
C7	2.313935E-03	-1.905301E-04	1.145961E-10	5.508792E-05
C8	-4.612966E-03	-2.346098E-04	2.173562E-12	1.199341E-06
C9	-2.109840E-04	2.830761E-04	5.928820E-13	5.046459E-07
C10	9.589028E-04	-3.137938E-05	-6.525446E-12	9.088898E-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

AE2425Z-AA3C

General

Model	AE2425Z-AA3C	Unit of Measure	Fahrenheit
Condition	ASHRAE (R-407A)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	32.2°C (90°F) RETURN GAS	MotorType	CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
-40	Btu/h	3240				
	Watts	276				
	Amps	3.35				
	Lb/h	10.6				
-35	Btu/h	2970	2920			
	Watts	307	302			
	Amps	3.47	3.58			
	Lb/h	13.1	11.9			
-30	Btu/h	2760	2670	2620		
	Watts	335	335	334		
	Amps	3.65	3.73	3.74		
	Lb/h	15.6	14.4	13.7		
-25	Btu/h	2630	2490	2390	2280	
	Watts	362	365	367	367	
	Amps	3.88	3.94	3.93	3.93	
	Lb/h	18.0	17.0	16.4	15.5	
-20	Btu/h	2570	2380	2240	2090	1860
	Watts	389	394	400	403	400
	Amps	4.13	4.18	4.16	4.15	4.22
	Lb/h	20.6	19.5	19.1	18.4	16.7
-15	Btu/h	2600	2360	2180	1990	1730
	Watts	416	423	431	437	439
	Amps	4.40	4.44	4.42	4.41	4.48
	Lb/h	23.4	22.3	21.8	21.3	19.9
-10	Btu/h	2730	2430	2210	1980	1700
	Watts	444	453	463	472	476
	Amps	4.68	4.72	4.71	4.70	4.78
	Lb/h	26.5	25.3	24.8	24.3	23.1
-5	Btu/h	2950	2610	2330	2070	1760
	Watts	474	484	496	507	514
	Amps	4.94	5.00	5.00	5.00	5.10
	Lb/h	30.0	28.6	28.0	27.6	26.5
0	Btu/h	3290	2890	2570	2270	1930
	Watts	508	519	531	544	553
	Amps	5.19	5.27	5.28	5.31	5.42

	Lb/h	34.0	32.3	31.7	31.2	30.2
5	Btu/h	3740	3290	2930	2590	2210
	Watts	547	557	570	584	594
	Amps	5.41	5.51	5.55	5.60	5.75
	Lb/h	38.6	36.6	35.8	35.3	34.3
10	Btu/h	4330	3820	3410	3030	2620
	Watts	590	600	613	627	638
	Amps	5.57	5.71	5.78	5.87	6.05
	Lb/h	43.8	41.5	40.5	39.8	38.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.645946E+04	1.224870E+03	-1.530348E+01	2.776352E+02
C2	2.697864E+02	1.265905E+01	1.330431E-02	2.486549E+00
C3	-5.271182E+02	-2.020704E+01	5.206219E-01	-5.932357E+00
C4	2.519737E+00	1.909690E-01	-2.166637E-03	2.278812E-02
C5	-2.670732E+00	-1.082004E-01	2.300028E-04	-2.651347E-02
C6	4.055796E+00	1.813554E-01	-4.395394E-03	4.798440E-02
C7	1.076909E-02	1.281606E-03	-1.702586E-05	1.265633E-04
C8	-1.512366E-03	-1.057518E-03	1.497967E-05	-1.104377E-04
C9	7.614295E-03	5.339848E-04	1.020508E-06	1.017895E-04
C10	-1.101655E-02	-5.093020E-04	1.238698E-05	-1.302418E-04

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

AE2425Z-AA3C

General

Model	AE2425Z-AA3C	Unit of Measure	Fahrenheit
Condition	ASHRAE (R-448A)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	32.2°C (90°F) RETURN GAS	Motor Type	CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
-40	Btu/h	1240				
	Watts	312				
	Amps	3.95				
	Lb/h	12.2				
-35	Btu/h	1490	1320			
	Watts	335	332			
	Amps	4.07	4.03			
	Lb/h	15.0	14.0			
-30	Btu/h	1770	1590	1400		
	Watts	359	359	356		
	Amps	4.20	4.18	4.16		
	Lb/h	18.1	17.0	15.8		
-25	Btu/h	2080	1880	1670		
	Watts	386	388	389		
	Amps	4.34	4.34	4.34		
	Lb/h	21.4	20.3	19.0		
-20	Btu/h	2420	2200	1970	1740	
	Watts	414	419	422	423	
	Amps	4.50	4.52	4.53	4.54	
	Lb/h	25.0	23.8	22.5	21.0	
-15	Btu/h	2790	2550	2300	2050	
	Watts	443	451	457	461	
	Amps	4.67	4.71	4.74	4.76	
	Lb/h	28.9	27.7	26.3	24.8	
-10	Btu/h	3190	2930	2660	2390	2120
	Watts	474	485	494	501	506
	Amps	4.85	4.91	4.96	5.00	5.04
	Lb/h	33.2	31.9	30.5	28.9	27.2
-5	Btu/h	3640	3350	3050	2750	2460
	Watts	507	520	531	541	549
	Amps	5.04	5.12	5.19	5.25	5.31
	Lb/h	37.9	36.6	35.0	33.4	31.7
0	Btu/h	4120	3800	3480	3150	2830
	Watts	540	555	570	582	594
	Amps	5.25	5.34	5.43	5.51	5.58

	Lb/h	43.0	41.6	40.0	38.3	36.6
5	Btu/h	4630	4290	3930	3580	3230
	Watts	574	592	609	624	639
	Amps	5.47	5.58	5.68	5.78	5.88
	Lb/h	48.6	47.1	45.5	43.7	41.9
10	Btu/h	5190	4820	4430	4040	3660
	Watts	610	630	649	667	684
	Amps	5.70	5.83	5.95	6.07	6.18
	Lb/h	54.6	53.1	51.4	49.6	47.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.748786E+03	3.540210E+02	4.010968E+00	3.932475E+01
C2	1.542865E+02	4.852911E+00	6.064440E-03	1.180596E+00
C3	7.087322E+00	1.854979E+00	1.524912E-02	2.701320E-01
C4	1.197288E+00	4.111227E-02	2.471402E-04	8.865488E-03
C5	-5.261900E-01	-4.618344E-03	3.640145E-04	-1.200990E-03
C6	-3.205812E-01	2.718551E-03	-2.865165E-05	-2.991182E-03
C7	2.083804E-03	-1.622804E-04	5.974828E-11	3.988276E-05
C8	-4.154100E-03	-1.998188E-04	-1.727826E-11	8.686775E-07
C9	-1.900174E-04	2.410972E-04	6.881911E-13	3.654239E-07
C10	8.635221E-04	-2.672598E-05	3.718939E-12	6.580580E-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

AE2425Z-AA3C

General

Model	AE2425Z-AA3C	Unit of Measure	Fahrenheit
Condition	ASHRAE (R-449A)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	32.2°C (90°F) RETURN GAS	Motor Type	CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
-40	Btu/h	1240				
	Watts	312				
	Amps	3.95				
	Lb/h	12.2				
-35	Btu/h	1490	1320			
	Watts	335	332			
	Amps	4.07	4.03			
	Lb/h	15.0	14.0			
-30	Btu/h	1770	1590	1400		
	Watts	359	359	356		
	Amps	4.20	4.18	4.16		
	Lb/h	18.1	17.0	15.8		
-25	Btu/h	2080	1880	1670		
	Watts	386	388	389		
	Amps	4.34	4.34	4.34		
	Lb/h	21.4	20.3	19.0		
-20	Btu/h	2420	2200	1970	1740	
	Watts	414	419	422	423	
	Amps	4.50	4.52	4.53	4.54	
	Lb/h	25.0	23.8	22.5	21.0	
-15	Btu/h	2790	2550	2300	2050	
	Watts	443	451	457	461	
	Amps	4.67	4.71	4.74	4.76	
	Lb/h	28.9	27.7	26.3	24.8	
-10	Btu/h	3190	2930	2660	2390	2120
	Watts	474	485	494	501	506
	Amps	4.85	4.91	4.96	5.00	5.04
	Lb/h	33.2	31.9	30.5	28.9	27.2
-5	Btu/h	3640	3350	3050	2750	2460
	Watts	507	520	531	541	549
	Amps	5.04	5.12	5.19	5.25	5.31
	Lb/h	37.9	36.6	35.0	33.4	31.7
0	Btu/h	4120	3800	3480	3150	2830
	Watts	540	555	570	582	594
	Amps	5.25	5.34	5.43	5.51	5.58

	Lb/h	43.0	41.6	40.0	38.3	36.6
5	Btu/h	4630	4290	3930	3580	3230
	Watts	574	592	609	624	639
	Amps	5.47	5.58	5.68	5.78	5.88
	Lb/h	48.6	47.1	45.5	43.7	41.9
10	Btu/h	5190	4820	4430	4040	3660
	Watts	610	630	649	667	684
	Amps	5.70	5.83	5.95	6.07	6.18
	Lb/h	54.6	53.1	51.4	49.6	47.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.748786E+03	3.540210E+02	4.010968E+00	3.932475E+01
C2	1.542865E+02	4.852911E+00	6.064440E-03	1.180596E+00
C3	7.087322E+00	1.854979E+00	1.524912E-02	2.701320E-01
C4	1.197288E+00	4.111227E-02	2.471402E-04	8.865488E-03
C5	-5.261900E-01	-4.618344E-03	3.640145E-04	-1.200990E-03
C6	-3.205812E-01	2.718551E-03	-2.865165E-05	-2.991182E-03
C7	2.083804E-03	-1.622804E-04	5.974828E-11	3.988276E-05
C8	-4.154100E-03	-1.998188E-04	-1.727826E-11	8.686775E-07
C9	-1.900174E-04	2.410972E-04	6.881911E-13	3.654239E-07
C10	8.635221E-04	-2.672598E-05	3.718939E-12	6.580580E-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

AE2425Z-AA3C

General

Model	AE2425Z-AA3C	Unit of Measure	Fahrenheit
Condition	ASHRAE (R-452A)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	32.2°C (90°F) RETURN GAS	Motor Type	CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
-40	Btu/h	1270				
	Watts	332				
	Amps	4.10				
	Lb/h	15.4				
-35	Btu/h	1520	1350			
	Watts	356	352			
	Amps	4.23	4.19			
	Lb/h	18.9	17.6			
-30	Btu/h	1800	1620	1420		
	Watts	382	381	378		
	Amps	4.37	4.35	4.32		
	Lb/h	22.7	21.4	19.9		
-25	Btu/h	2120	1910	1700	1490	
	Watts	410	412	413	410	
	Amps	4.52	4.52	4.51	4.50	
	Lb/h	26.9	25.5	23.9	22.1	
-20	Btu/h	2460	2240	2010	1780	1550
	Watts	439	445	449	450	448
	Amps	4.68	4.70	4.71	4.72	4.72
	Lb/h	31.4	30.0	28.3	26.4	24.5
-15	Btu/h	2840	2600	2350	2090	1840
	Watts	471	479	486	490	492
	Amps	4.85	4.89	4.93	4.95	4.98
	Lb/h	36.4	34.8	33.1	31.2	29.1
-10	Btu/h	3260	2990	2710	2430	2160
	Watts	504	515	524	532	537
	Amps	5.04	5.10	5.15	5.20	5.24
	Lb/h	41.8	40.2	38.3	36.4	34.3
-5	Btu/h	3710	3410	3110	2810	2510
	Watts	538	552	564	575	584
	Amps	5.24	5.32	5.39	5.46	5.52
	Lb/h	47.7	46.0	44.1	42.0	39.9
0	Btu/h	4200	3870	3540	3210	2880
	Watts	574	590	605	619	631
	Amps	5.46	5.56	5.65	5.73	5.81

	Lb/h	54.1	52.3	50.4	48.2	46.0
5	Btu/h	4730	4370	4010	3650	3290
	Watts	610	629	647	663	678
	Amps	5.69	5.80	5.91	6.01	6.11
	Lb/h	61.1	59.3	57.2	55.0	52.7
10	Btu/h	5300	4910	4520	4120	3730
	Watts	648	669	689	709	727
	Amps	5.93	6.06	6.19	6.31	6.43
	Lb/h	68.7	66.8	64.7	62.4	60.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.863548E+03	3.760402E+02	4.171408E+00	4.947562E+01
C2	1.573666E+02	5.154753E+00	6.306972E-03	1.485345E+00
C3	7.228826E+00	1.970389E+00	1.585906E-02	3.398643E-01
C4	1.221189E+00	4.366932E-02	2.570197E-04	1.115397E-02
C5	-5.366964E-01	-4.905348E-03	3.785764E-04	-1.511013E-03
C6	-3.269812E-01	2.887384E-03	-2.979753E-05	-3.763325E-03
C7	2.125482E-03	-1.723860E-04	-1.505813E-10	5.018156E-05
C8	-4.237032E-03	-2.122460E-04	4.306354E-11	1.092660E-06
C9	-1.938038E-04	2.560923E-04	-5.036754E-12	4.597746E-07
C10	8.807612E-04	-2.838759E-05	3.336058E-12	8.279309E-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

AE2425Z-AA3C

General

Model	AE2425Z-AA3C	Unit of Measure	Celsius
Condition	EN12900 (R-404A)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	20°C (68°F) RETURN GAS	Motor Type	CSR

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)							
		30	35	40	45	50	55	60
-40	Btu/h	1840	1640	1460	1280			
	Watts (Power)	345	347	349	349			
	Amps	4.04	4.06	4.08	4.08			
	Lb/h	18.7	17.7	16.6	15.6			
-35	Btu/h	2440	2210	1990	1770	1560		
	Watts (Power)	397	402	406	410	412		
	Amps	4.40	4.44	4.48	4.50	4.51		
	Lb/h	24.9	23.9	22.8	21.7	20.6		
-30	Btu/h	3160	2900	2630	2360	2100	1840	1600
	Watts (Power)	452	460	468	475	480	484	485
	Amps	4.80	4.86	4.93	4.98	5.03	5.05	5.04
	Lb/h	32.5	31.4	30.3	29.0	27.8	26.6	25.5
-25	Btu/h	4010	3700	3380	3050	2720	2400	2090
	Watts (Power)	512	523	534	544	554	561	567
	Amps	5.26	5.34	5.43	5.52	5.60	5.66	5.69
	Lb/h	41.4	40.3	39.1	37.7	36.3	35.0	33.6
-23.3	Btu/h	4330	4000	3660	3310	2960	2610	2270
	Watts (Power)	533	545	557	569	580	589	596
	Amps	5.43	5.52	5.62	5.71	5.80	5.88	5.93
	Lb/h	44.7	43.7	42.4	41.0	39.6	38.1	36.7
-20	Btu/h	5000	4620	4240	3850	3450	3050	2650
	Watts (Power)	576	590	605	619	632	644	654
	Amps	5.78	5.88	5.99	6.11	6.23	6.33	6.41
	Lb/h	51.8	50.7	49.4	48.0	46.4	44.8	43.3
-15	Btu/h	6120	5680	5230	4760	4280	3800	3310
	Watts (Power)	645	663	681	700	717	734	748
	Amps	6.36	6.48	6.62	6.78	6.93	7.07	7.20
	Lb/h	64.0	62.8	61.5	59.9	58.2	56.4	54.6
-10	Btu/h	7390	6880	6350	5790	5230	4650	4060
	Watts (Power)	720	742	764	786	808	829	849
	Amps	7.01	7.16	7.33	7.51	7.70	7.88	8.06
	Lb/h	78.0	76.8	75.3	73.6	71.8	69.8	67.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.366202E+04	7.711822E+02	8.462249E+00	1.091946E+02
C2	4.318996E+02	1.393409E+01	1.573549E-01	3.754603E+00

C3	-7.727245E+01	1.333754E+00	-4.138955E-02	4.817421E-01
C4	4.441139E+00	1.117614E-01	1.580346E-03	4.659718E-02
C5	-2.665750E+00	1.109585E-01	-1.889991E-04	8.245987E-03
C6	-1.189140E+00	1.093889E-01	1.789202E-03	-1.495562E-02
C7	9.257845E-03	6.118717E-04	7.085389E-06	2.003882E-04
C8	-3.528527E-02	8.527233E-04	3.921016E-06	-2.091059E-05
C9	-1.885301E-02	9.245516E-04	1.903813E-05	-1.630872E-04
C10	5.255027E-03	-7.987338E-04	-1.106078E-05	7.275818E-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

AE2425Z-AA3C

General

Model	AE2425Z-AA3C	Unit of Measure	Fahrenheit
Condition	EN12900 (R-404A)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	20°C (68°F) RETURN GAS	Motor Type	CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
		80	90	100	110	120	130	140	150
-40	Btu/h	3350	3120	3040	3050	3070	3060	2940	2660
	Watts	356	339	328	318	306	289	262	223
	Amps	3.06	3.66	3.99	4.16	4.24	4.32	4.51	4.87
	Lb/h	30.0	22.8	18.7	16.2	14.1	11.0	5.38	
-35	Btu/h	3210	2930	2790	2750	2740	2690	2550	2250
	Watts	385	372	365	360	353	342	323	291
	Amps	3.29	3.85	4.14	4.26	4.31	4.35	4.50	4.83
	Lb/h	34.5	27.2	23.1	21.0	19.3	16.8	12.0	3.65
-30	Btu/h	3130	2790	2600	2510	2460	2390	2220	1900
	Watts	412	402	398	398	397	391	378	353
	Amps	3.57	4.09	4.35	4.45	4.46	4.48	4.59	4.89
	Lb/h	39.0	31.5	27.5	25.5	24.2	22.2	18.2	10.7
-25	Btu/h	3120	2710	2470	2340	2250	2140	1950	1620
	Watts	439	431	431	434	437	436	428	410
	Amps	3.89	4.38	4.62	4.69	4.68	4.68	4.78	5.06
	Lb/h	43.8	36.0	31.8	29.9	28.9	27.4	24.0	17.3
-20	Btu/h	3180	2710	2420	2240	2110	1970	1750	1400
	Watts	466	460	462	468	475	479	476	463
	Amps	4.22	4.70	4.92	4.98	4.95	4.94	5.03	5.30
	Lb/h	48.9	40.7	36.4	34.5	33.6	32.5	29.6	23.6
-15	Btu/h	3330	2800	2450	2220	2050	1870	1630	1260
	Watts	495	490	494	503	513	520	521	513
	Amps	4.56	5.03	5.24	5.29	5.27	5.25	5.34	5.61
	Lb/h	54.6	46.0	41.3	39.3	38.5	37.6	35.1	29.7
-10	Btu/h	3560	2970	2570	2290	2080	1870	1600	1200
	Watts	527	523	528	538	550	561	566	562
	Amps	4.88	5.35	5.57	5.63	5.61	5.60	5.69	5.98
	Lb/h	61.0	51.8	46.8	44.6	43.8	43.0	40.8	35.9
-5	Btu/h	3900	3240	2780	2450	2200	1950	1650	1240
	Watts	563	559	564	576	590	603	611	611
	Amps	5.18	5.66	5.89	5.96	5.95	5.96	6.07	6.37
	Lb/h	68.3	58.5	53.0	50.5	49.5	48.8	46.8	42.4
0	Btu/h	4330	3610	3090	2720	2420	2140	1810	1380
	Watts	604	599	604	617	632	647	657	660
	Amps	5.43	5.93	6.18	6.28	6.29	6.32	6.46	6.79

	Lb/h	76.7	66.1	60.0	57.1	55.9	55.1	53.3	49.2
5	Btu/h	4890	4100	3520	3090	2750	2440	2080	1630
	Watts	652	645	650	662	678	694	706	712
	Amps	5.63	6.16	6.44	6.56	6.61	6.68	6.85	7.21
	Lb/h	86.4	74.9	68.1	64.7	63.2	62.2	60.5	56.6
10	Btu/h	5560	4700	4070	3590	3200	2850	2470	1990
	Watts	707	698	701	713	729	745	759	766
	Amps	5.75	6.32	6.64	6.80	6.89	7.00	7.21	7.62
	Lb/h	97.4	84.9	77.4	73.3	71.4	70.3	68.4	64.6

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.489509E+04	1.456288E+03	-1.823017E+01	4.901441E+02
C2	2.538357E+02	1.505076E+01	1.584855E-02	4.389815E+00
C3	-4.959532E+02	-2.402481E+01	6.201876E-01	-1.047313E+01
C4	2.370758E+00	2.270489E-01	-2.580987E-03	4.023080E-02
C5	-2.512830E+00	-1.286431E-01	2.739923E-04	-4.680755E-02
C6	3.816004E+00	2.156195E-01	-5.235986E-03	8.471282E-02
C7	1.013240E-02	1.523738E-03	-2.028207E-05	2.234395E-04
C8	-1.422917E-03	-1.257314E-03	1.784439E-05	-1.949700E-04
C9	7.164113E-03	6.348726E-04	1.215660E-06	1.797017E-04
C10	-1.036522E-02	-6.055260E-04	1.475592E-05	-2.299320E-04

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