Tecumseh

Performance Data Sheet

AJA2425ZXA

General

Model	AJA2425ZXA	**Unit of Measure**	Fahrenheit
Condition	ARI (R-404A)	**Voltage/Frequency**	115V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	**MotorType**	CSR

Performance Information

EVAP TEMP (°F)		Condensing Temperature (°F)				
		100	**110**	**120**	**130**	**140**
-40	Btu/h	646	362	115		
	Watts	318	284	233		
	Amps	4.77	4.60	4.34		
	Lb/h	11.7	8.97	4.29		
-35	Btu/h	950	621	325	62.5	
	Watts	381	344	294	224	
	Amps	5.13	4.91	4.61	4.22	
	Lb/h	16.7	12.9	7.58	0.96	
-30	Btu/h	1350	969	621	304	
	Watts	455	418	370	304	
	Amps	5.62	5.38	5.06	4.64	
	Lb/h	24.5	19.6	13.7	6.88	
-25	Btu/h	1830	1400	992	616	266
	Watts	538	503	457	398	319
	Amps	6.21	5.96	5.64	5.23	4.72
	Lb/h	34.6	28.7	22.1	15.2	7.95
-20	Btu/h	2380	1890	1430	988	573
	Watts	626	593	553	501	431
	Amps	6.87	6.63	6.32	5.93	5.45
	Lb/h	46.6	39.7	32.5	25.3	18.4
-15	Btu/h	3000	2450	1920	1410	925
	Watts	715	687	654	610	551
	Amps	7.58	7.36	7.09	6.74	6.30
	Lb/h	60.1	52.1	44.3	37.0	30.3
-10	Btu/h	3670	3050	2450	1870	1310
	Watts	803	781	755	722	676
	Amps	8.30	8.13	7.90	7.60	7.22
	Lb/h	74.5	65.5	57.1	49.6	43.2
-5	Btu/h	4380	3690	3020	2360	1720
	Watts	885	870	854	832	800
	Amps	9.00	8.89	8.73	8.50	8.20
	Lb/h	89.5	79.4	70.4	62.8	56.7
0	Btu/h	5120	4350	3600	2870	2150
	Watts	958	952	947	939	922
	Amps	9.65	9.62	9.55	9.41	9.20
	Lb/h					

	Lb/h	105	93.4	83.8	76.0	70.2
5	Btu/h	5880	5030	4200	3380	2580
	Watts	1020	1020	1030	1040	1040
	Amps	10.2	10.3	10.3	10.3	10.2
	Lb/h	119	107	96.9	88.9	83.4
10	Btu/h	6640	5720	4800	3900	3000
	Watts	1060	1080	1100	1120	1140
	Amps	10.7	10.9	11.0	11.1	11.2
	Lb/h	133	120	109	101	95.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.381514E+04	2.104733E+03	1.003637E+01	2.565070E+02
C2	2.744559E+02	1.907909E+01	1.740468E-04	9.919721E+00
C3	-9.822153E+01	-2.980507E+01	-2.789072E-02	-1.504105E+00
C4	1.229265E+00	-5.474310E-01	-5.085577E-03	-8.592051E-03
C5	-9.769866E-01	-2.784889E-01	7.384099E-04	-1.135324E-01
C6	1.274734E-01	2.606062E-01	4.483400E-04	-3.633025E-03
C7	-1.414589E-02	-4.666885E-03	-4.008930E-05	-6.068064E-04
C8	-8.331395E-03	2.995433E-03	3.524734E-05	9.161763E-06
C9	-2.652209E-03	2.232227E-03	4.954438E-06	4.419267E-04
C10	-1.510464E-04	-7.718052E-04	-2.082645E-06	3.479707E-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

Tecumseh

Performance Data Sheet

AJA2425ZXA

General

Model	AJA2425ZXA	**Unit of Measure**	Fahrenheit
Condition	ARI (R-407A)	**Voltage/Frequency**	115V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	**MotorType**	CSR

Performance Information

EVAP TEMP (°F)		Condensing Temperature (°F)					
		90	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	900	601				
	Watts	292	273				
	Amps	4.44	4.35				
	Lb/h	8.05	7.69				
-35	Btu/h	1220	883	577			
	Watts	348	326	295			
	Amps	4.81	4.68	4.48			
	Lb/h	12.3	11.0	8.48			
-30	Btu/h	1640	1250	900	577		
	Watts	414	389	358	317		
	Amps	5.29	5.12	4.90	4.61		
	Lb/h	18.4	16.1	12.9	9.00		
-25	Btu/h	2130	1700	1300	922	572	
	Watts	486	460	430	392	341	
	Amps	5.84	5.66	5.43	5.14	4.77	
	Lb/h	26.1	22.8	18.9	14.6	9.97	
-20	Btu/h	2700	2220	1760	1330	918	
	Watts	561	536	508	474	429	
	Amps	6.44	6.27	6.05	5.77	5.41	
	Lb/h	35.0	30.7	26.1	21.4	16.7	
-15	Btu/h	3330	2790	2270	1780	1310	
	Watts	636	612	588	560	522	
	Amps	7.06	6.91	6.72	6.46	6.14	
	Lb/h	44.9	39.6	34.3	29.2	24.3	
-10	Btu/h	4010	3410	2830	2280	1740	1220
	Watts	708	687	668	646	618	578
	Amps	7.68	7.57	7.41	7.21	6.93	6.59
	Lb/h	55.3	49.1	43.1	37.6	32.6	28.4
-5	Btu/h	4730	4070	3430	2800	2190	1600
	Watts	774	758	745	731	713	685
	Amps	8.27	8.21	8.11	7.96	7.76	7.48
	Lb/h	66.2	58.9	52.3	46.3	41.3	37.3
0	Btu/h	5480	4760	4050	3350	2670	2000
	Watts	831	821	815	811	804	790
	Amps	8.79	8.80	8.78	8.71	8.58	8.39
	Lb/h						

	Lb/h	77.1	68.8	61.5	55.2	50.0	46.2
5	Btu/h	6260	5460	4680	3910	3150	2390
	Watts	876	873	876	883	888	888
	Amps	9.23	9.32	9.39	9.41	9.39	9.30
	Lb/h	87.7	78.5	70.4	63.8	58.5	54.9
10	Btu/h	7050	6180	5320	4460	3620	2790
	Watts	907	912	925	943	963	979
	Amps	9.55	9.75	9.92	10.1	10.1	10.2
	Lb/h	97.7	87.6	78.9	71.8	66.5	63.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.284168E+04	1.802162E+03	9.153801E+00	1.688224E+02
C2	2.551168E+02	1.633633E+01	1.587416E-04	6.528752E+00
C3	-9.130050E+01	-2.552037E+01	-2.543809E-02	-9.899400E-01
C4	1.142647E+00	-4.687337E-01	-4.638366E-03	-5.654934E-03
C5	-9.081447E-01	-2.384541E-01	6.734763E-04	-7.472235E-02
C6	1.184912E-01	2.231421E-01	4.089143E-04	-2.391108E-03
C7	-1.314912E-02	-3.995986E-03	-3.656396E-05	-3.993750E-04
C8	-7.744336E-03	2.564817E-03	3.214779E-05	6.029895E-06
C9	-2.465325E-03	1.911328E-03	4.518759E-06	2.908580E-04
C10	-1.404031E-04	-6.608525E-04	-1.899503E-06	2.290200E-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

Tecumseh

Performance Data Sheet

AJA2425ZXA

General

Model	AJA2425ZXA	**Unit of Measure**	Fahrenheit
Condition	ARI (R-448A)	**Voltage/Frequency**	115V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	**MotorType**	CSR

Performance Information

EVAP TEMP (°F)		Condensing Temperature (°F)					
		90	100	110	120	130	140
-40	Btu/h	986	658				
	Watts	304	284				
	Amps	4.65	4.55				
	Lb/h	8.80	8.41				
-35	Btu/h	1340	967	632			
	Watts	362	339	307			
	Amps	5.03	4.89	4.69			
	Lb/h	13.5	12.0	9.28			
-30	Btu/h	1790	1370	986	632		
	Watts	431	405	373	329		
	Amps	5.53	5.36	5.13	4.82		
	Lb/h	20.2	17.6	14.1	9.85		
-25	Btu/h	2330	1860	1420	1010	626	
	Watts	505	479	448	407	354	
	Amps	6.11	5.92	5.68	5.37	4.99	
	Lb/h	28.5	24.9	20.6	15.9	10.9	
-20	Btu/h	2950	2430	1930	1450	1010	
	Watts	583	557	528	493	446	
	Amps	6.73	6.56	6.33	6.03	5.66	
	Lb/h	38.3	33.6	28.5	23.4	18.2	
-15	Btu/h	3640	3050	2490	1950	1440	
	Watts	661	637	612	582	543	
	Amps	7.39	7.23	7.02	6.76	6.42	
	Lb/h	49.0	43.2	37.5	31.9	26.6	
-10	Btu/h	4390	3730	3100	2490	1900	1330
	Watts	736	715	695	672	643	602
	Amps	8.03	7.91	7.75	7.54	7.25	6.89
	Lb/h	60.5	53.6	47.1	41.1	35.7	31.1
-5	Btu/h	5180	4450	3750	3070	2400	1750
	Watts	805	788	775	761	741	713
	Amps	8.64	8.58	8.48	8.33	8.11	7.82
	Lb/h	72.4	64.4	57.1	50.7	45.2	40.8
0	Btu/h	6000	5210	4430	3670	2920	2190
	Watts	864	854	848	844	836	821
	Amps	9.19	9.20	9.18	9.11	8.98	8.78

	Lb/h	84.2	75.2	67.2	60.3	54.7	50.5
5	Btu/h	6850	5980	5120	4280	3440	2620
	Watts	912	908	911	918	924	924
	Amps	9.65	9.75	9.82	9.84	9.82	9.73
	Lb/h	95.9	85.8	77.0	69.7	64.0	60.0
10	Btu/h	7720	6760	5820	4890	3960	3050
	Watts	943	948	962	981	1000	1020
	Amps	9.99	10.2	10.4	10.5	10.6	10.6
	Lb/h	107	95.7	86.2	78.5	72.7	68.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.406079E+04	1.874443E+03	9.573153E+00	1.845844E+02
C2	2.793361E+02	1.699154E+01	1.660139E-04	7.138309E+00
C3	-9.996806E+01	-2.654393E+01	-2.660346E-02	-1.082366E+00
C4	1.251123E+00	-4.875336E-01	-4.850858E-03	-6.182907E-03
C5	-9.943589E-01	-2.480179E-01	7.043294E-04	-8.169881E-02
C6	1.297401E-01	2.320918E-01	4.276474E-04	-2.614353E-03
C7	-1.439743E-02	-4.156255E-03	-3.823902E-05	-4.366626E-04
C8	-8.479540E-03	2.667686E-03	3.362054E-05	6.592877E-06
C9	-2.699369E-03	1.987987E-03	4.725772E-06	3.180139E-04
C10	-1.537322E-04	-6.873578E-04	-1.986523E-06	2.504024E-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

Tecumseh

Performance Data Sheet

AJA2425ZXA

General

Model	AJA2425ZXA	**Unit of Measure**	Fahrenheit
Condition	ARI (R-449A)	**Voltage/Frequency**	115V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	**MotorType**	CSR

Performance Information

EVAP TEMP (°F)		Condensing Temperature (°F)					
		90	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	986	658				
	Watts	304	284				
	Amps	4.65	4.55				
	Lb/h	8.80	8.41				
-35	Btu/h	1340	967	632			
	Watts	362	339	307			
	Amps	5.03	4.89	4.69			
	Lb/h	13.5	12.0	9.28			
-30	Btu/h	1790	1370	986	632		
	Watts	431	405	373	329		
	Amps	5.53	5.36	5.13	4.82		
	Lb/h	20.2	17.6	14.1	9.85		
-25	Btu/h	2330	1860	1420	1010	626	
	Watts	505	479	448	407	354	
	Amps	6.11	5.92	5.68	5.37	4.99	
	Lb/h	28.5	24.9	20.6	15.9	10.9	
-20	Btu/h	2950	2430	1930	1450	1010	
	Watts	583	557	528	493	446	
	Amps	6.73	6.56	6.33	6.03	5.66	
	Lb/h	38.3	33.6	28.5	23.4	18.2	
-15	Btu/h	3640	3050	2490	1950	1440	
	Watts	661	637	612	582	543	
	Amps	7.39	7.23	7.02	6.76	6.42	
	Lb/h	49.0	43.2	37.5	31.9	26.6	
-10	Btu/h	4390	3730	3100	2490	1900	1330
	Watts	736	715	695	672	643	602
	Amps	8.03	7.91	7.75	7.54	7.25	6.89
	Lb/h	60.5	53.6	47.1	41.1	35.7	31.1
-5	Btu/h	5180	4450	3750	3070	2400	1750
	Watts	805	788	775	761	741	713
	Amps	8.64	8.58	8.48	8.33	8.11	7.82
	Lb/h	72.4	64.4	57.1	50.7	45.2	40.8
0	Btu/h	6000	5210	4430	3670	2920	2190
	Watts	864	854	848	844	836	821
	Amps	9.19	9.20	9.18	9.11	8.98	8.78
	Lb/h						

	Lb/h	84.2	75.2	67.2	60.3	54.7	50.5
5	Btu/h	6850	5980	5120	4280	3440	2620
	Watts	912	908	911	918	924	924
	Amps	9.65	9.75	9.82	9.84	9.82	9.73
	Lb/h	95.9	85.8	77.0	69.7	64.0	60.0
10	Btu/h	7720	6760	5820	4890	3960	3050
	Watts	943	948	962	981	1000	1020
	Amps	9.99	10.2	10.4	10.5	10.6	10.6
	Lb/h	107	95.7	86.2	78.5	72.7	68.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.406079E+04	1.874443E+03	9.573153E+00	1.845844E+02
C2	2.793361E+02	1.699154E+01	1.660139E-04	7.138309E+00
C3	-9.996806E+01	-2.654393E+01	-2.660346E-02	-1.082366E+00
C4	1.251123E+00	-4.875336E-01	-4.850858E-03	-6.182907E-03
C5	-9.943589E-01	-2.480179E-01	7.043294E-04	-8.169881E-02
C6	1.297401E-01	2.320918E-01	4.276474E-04	-2.614353E-03
C7	-1.439743E-02	-4.156255E-03	-3.823902E-05	-4.366626E-04
C8	-8.479540E-03	2.667686E-03	3.362054E-05	6.592877E-06
C9	-2.699369E-03	1.987987E-03	4.725772E-06	3.180139E-04
C10	-1.537322E-04	-6.873578E-04	-1.986523E-06	2.504024E-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

Tecumseh

Performance Data Sheet

AJA2425ZXA

General

Model	AJA2425ZXA	**Unit of Measure**	Fahrenheit
Condition	ARI (R-452A)	**Voltage/Frequency**	115V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	**MotorType**	CSR

Performance Information

EVAP TEMP (°F)		Condensing Temperature (°F)					
		90	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	995	664				
	Watts	311	291				
	Amps	4.62	4.52				
	Lb/h	10.9	10.4				
-35	Btu/h	1350	976	638			
	Watts	372	348	315			
	Amps	5.00	4.86	4.65			
	Lb/h	16.6	14.8	11.4			
-30	Btu/h	1810	1390	996	638		
	Watts	442	416	382	338		
	Amps	5.49	5.32	5.09	4.79		
	Lb/h	24.9	21.7	17.4	12.1		
-25	Btu/h	2360	1880	1430	1020	633	
	Watts	518	491	459	418	363	
	Amps	6.06	5.88	5.64	5.34	4.95	
	Lb/h	35.2	30.7	25.5	19.6	13.5	
-20	Btu/h	2980	2450	1940	1470	1020	
	Watts	598	572	542	505	458	
	Amps	6.69	6.51	6.28	5.99	5.62	
	Lb/h	47.2	41.4	35.2	28.8	22.5	
-15	Btu/h	3680	3080	2510	1970	1450	
	Watts	678	653	628	597	557	
	Amps	7.33	7.18	6.97	6.71	6.38	
	Lb/h	60.5	53.3	46.2	39.3	32.8	
-10	Btu/h	4430	3770	3130	2520	1920	1350
	Watts	755	733	713	690	659	617
	Amps	7.97	7.86	7.70	7.48	7.20	6.84
	Lb/h	74.6	66.2	58.1	50.7	44.0	38.4
-5	Btu/h	5230	4500	3790	3100	2430	1770
	Watts	826	809	795	780	760	731
	Amps	8.58	8.52	8.42	8.27	8.05	7.77
	Lb/h	89.3	79.5	70.5	62.5	55.7	50.3
0	Btu/h	6060	5260	4470	3700	2950	2210
	Watts	887	876	870	865	858	842
	Amps	9.13	9.14	9.11	9.04	8.91	8.72
	Lb/h						

	Lb/h	104	92.8	82.9	74.4	67.5	62.3
5	Btu/h	6920	6040	5170	4320	3480	2650
	Watts	935	931	935	942	948	948
	Amps	9.58	9.68	9.75	9.77	9.75	9.66
	Lb/h	118	106	95.0	86.0	78.9	74.0
10	Btu/h	7790	6830	5880	4930	4000	3080
	Watts	968	973	987	1010	1030	1040
	Amps	9.92	10.1	10.3	10.4	10.5	10.6
	Lb/h	132	118	106	96.8	89.6	85.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.419656E+04	1.922903E+03	9.505168E+00	2.276864E+02
C2	2.820333E+02	1.743083E+01	1.648349E-04	8.805160E+00
C3	-1.009333E+02	-2.723018E+01	-2.641453E-02	-1.335107E+00
C4	1.263203E+00	-5.001379E-01	-4.816409E-03	-7.626664E-03
C5	-1.003960E+00	-2.544300E-01	6.993276E-04	-1.007761E-01
C6	1.309928E-01	2.380922E-01	4.246104E-04	-3.224825E-03
C7	-1.453644E-02	-4.263708E-03	-3.796747E-05	-5.386268E-04
C8	-8.561414E-03	2.736655E-03	3.338178E-05	8.132365E-06
C9	-2.725433E-03	2.039383E-03	4.692211E-06	3.922727E-04
C10	-1.552166E-04	-7.051282E-04	-1.972415E-06	3.088734E-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