Tecumseh

Performance Data Sheet

AVA7524ZXN

General

Model	AVA7524ZXN	**Unit of Measure**	Fahrenheit
Condition	ARI (R-404A)	**Voltage/Frequency**	230V~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
-10	Btu/h	15900	13100				
	Watts	2730	2640				
	Amps	13.7	13.7				
	Lb/h	288	257				
-5	Btu/h	18500	15500	13000			
	Watts	2900	2850	2780			
	Amps	14.2	14.4	14.3			
	Lb/h	338	307	284			
0	Btu/h	21400	18200	15500	12900		
	Watts	3040	3030	3000	2970		
	Amps	14.8	15.0	15.1	15.1		
	Lb/h	393	362	338	314		
5	Btu/h	24600	21100	18100	15200	12300	
	Watts	3170	3200	3210	3210	3220	
	Amps	15.4	15.7	15.9	16.0	16.1	
	Lb/h	453	422	397	373	342	
10	Btu/h	28000	24300	21000	17800	14500	
	Watts	3290	3360	3400	3440	3480	
	Amps	15.9	16.4	16.7	16.9	17.2	
	Lb/h	520	487	462	437	405	
15	Btu/h	31900	27800	24100	20500	16800	12700
	Watts	3410	3510	3590	3670	3740	3840
	Amps	16.5	17.1	17.5	17.9	18.2	18.7
	Lb/h	593	560	534	508	474	427
20	Btu/h	36000	31600	27500	23500	19300	14700
	Watts	3530	3670	3790	3900	4010	4140
	Amps	17.2	17.8	18.3	18.8	19.3	19.9
	Lb/h	675	641	614	586	551	502
25	Btu/h	40600	35700	31200	26800	22100	17000
	Watts	3660	3840	4000	4150	4300	4460
	Amps	17.8	18.5	19.2	19.8	20.4	21.1
	Lb/h	765	730	702	673	636	586
30	Btu/h	45600	40300	35200	30300	25100	19500
	Watts	3810	4040	4230	4420	4600	4800
	Amps	18.5	19.3	20.0	20.7	21.5	22.3

	Lb/h	866	829	799	769	731	678

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.178013E+05	-1.015820E+02	-4.015752E+00	2.173199E+03
C2	8.336715E+02	-5.925036E+01	3.244795E-02	1.096504E+01
C3	-2.167651E+03	8.986059E+01	4.663459E-01	-4.540727E+01
C4	1.297818E+01	-5.020002E-01	5.472082E-04	1.437742E-01
C5	-5.560543E-01	1.149710E+00	-7.528787E-05	1.576440E-02
C6	1.638570E+01	-8.339192E-01	-3.773557E-03	3.911212E-01
C7	3.270716E-02	9.836930E-03	3.046666E-06	1.214043E-03
C8	-7.998761E-02	1.585071E-03	-3.141319E-06	-4.045209E-04
C9	-2.212144E-02	-2.083152E-03	1.081740E-05	-1.154572E-04
C10	-4.671217E-02	2.487511E-03	1.013733E-05	-1.181747E-03

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

AVA7524ZXN

General

Model	AVA7524ZXN	**Unit of Measure**	Fahrenheit
Condition	ARI (R-407A)	**Voltage/Frequency**	230V~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
-10	Btu/h	15100	12400				
	Watts	2380	2300				
	Amps	12.3	12.3				
	Lb/h	195	174				
-5	Btu/h	17600	14800	12400			
	Watts	2530	2490	2430			
	Amps	12.8	12.9	12.9			
	Lb/h	229	208	192			
0	Btu/h	20400	17300	14700	12300		
	Watts	2660	2650	2620	2590		
	Amps	13.3	13.5	13.6	13.6		
	Lb/h	266	245	229	213		
5	Btu/h	23400	20100	17200	14500	11700	
	Watts	2770	2790	2800	2800	2810	
	Amps	13.8	14.1	14.3	14.4	14.5	
	Lb/h	307	285	269	252	231	
10	Btu/h	26700	23100	19900	16900	13800	
	Watts	2870	2930	2970	3000	3040	
	Amps	14.3	14.7	15.0	15.2	15.4	
	Lb/h	352	330	313	296	274	
15	Btu/h	30300	26400	22900	19500	16000	12000
	Watts	2970	3060	3130	3200	3270	3350
	Amps	14.9	15.3	15.7	16.1	16.4	16.8
	Lb/h	401	379	361	344	321	289
20	Btu/h	34300	30000	26200	22400	18400	14000
	Watts	3080	3200	3310	3400	3500	3620
	Amps	15.4	16.0	16.5	16.9	17.3	17.9
	Lb/h	457	434	415	397	373	340
25	Btu/h	38700	34000	29700	25500	21000	16200
	Watts	3190	3350	3490	3620	3750	3890
	Amps	16.0	16.7	17.2	17.8	18.3	19.0
	Lb/h	518	494	475	455	431	396
30	Btu/h	43400	38300	33500	28800	23900	18500
	Watts	3320	3520	3690	3850	4010	4190
	Amps	16.6	17.4	18.0	18.6	19.3	20.1

	Lb/h	586	561	541	520	494	459

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.121221E+05	-8.862135E+01	-3.609018E+00	1.470597E+03
C2	7.934801E+02	-5.169072E+01	2.916147E-02	7.420007E+00
C3	-2.063148E+03	7.839546E+01	4.191122E-01	-3.072695E+01
C4	1.235250E+01	-4.379510E-01	4.917844E-04	9.729154E-02
C5	-5.292468E-01	1.003021E+00	-6.766236E-05	1.066772E-02
C6	1.559574E+01	-7.275211E-01	-3.391354E-03	2.646704E-01
C7	3.113034E-02	8.581856E-03	2.738085E-06	8.215390E-04
C8	-7.613140E-02	1.382835E-03	-2.823152E-06	-2.737380E-04
C9	-2.105496E-02	-1.817367E-03	9.721763E-06	-7.812951E-05
C10	-4.446017E-02	2.170134E-03	9.110574E-06	-7.996844E-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

Tecumseh

Performance Data Sheet

AVA7524ZXN

General

Model	AVA7524ZXN	**Unit of Measure**	Fahrenheit
Condition	ARI (R-448A)	**Voltage/Frequency**	230V~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
-10	Btu/h	15800	13000				
	Watts	2470	2390				
	Amps	12.6	12.6				
	Lb/h	200	178				
-5	Btu/h	18500	15500	13000			
	Watts	2620	2580	2520			
	Amps	13.1	13.2	13.2			
	Lb/h	235	213	197			
0	Btu/h	21300	18100	15400	12900		
	Watts	2760	2750	2720	2690		
	Amps	13.6	13.9	13.9	14.0		
	Lb/h	273	251	235	218		
5	Btu/h	24500	21000	18000	15200	12300	
	Watts	2870	2900	2900	2910	2920	
	Amps	14.2	14.5	14.7	14.8	14.9	
	Lb/h	314	292	276	259	237	
10	Btu/h	28000	24200	20900	17700	14400	
	Watts	2980	3040	3080	3110	3150	
	Amps	14.7	15.1	15.4	15.6	15.8	
	Lb/h	360	338	321	303	281	
15	Btu/h	31800	27700	24000	20500	16800	12600
	Watts	3090	3180	3250	3320	3390	3480
	Amps	15.3	15.8	16.1	16.5	16.8	17.2
	Lb/h	411	389	370	352	329	296
20	Btu/h	36000	31500	27400	23400	19300	14700
	Watts	3190	3320	3430	3530	3630	3750
	Amps	15.8	16.4	16.9	17.3	17.8	18.3
	Lb/h	468	444	426	407	382	348
25	Btu/h	40500	35600	31100	26700	22100	16900
	Watts	3310	3480	3620	3760	3890	4040
	Amps	16.4	17.1	17.7	18.2	18.8	19.5
	Lb/h	531	506	487	467	441	406
30	Btu/h	45500	40100	35100	30200	25100	19400
	Watts	3450	3650	3830	4000	4170	4350
	Amps	17.1	17.8	18.5	19.1	19.8	20.6

	Lb/h	601	575	554	533	507	470

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.174894E+05	-9.198328E+01	-3.704891E+00	1.507485E+03
C2	8.314644E+02	-5.365166E+01	2.993614E-02	7.606127E+00
C3	-2.161912E+03	8.136946E+01	4.302458E-01	-3.149769E+01
C4	1.294382E+01	-4.545650E-01	5.048486E-04	9.973195E-02
C5	-5.545822E-01	1.041071E+00	-6.945980E-05	1.093530E-02
C6	1.634232E+01	-7.551203E-01	-3.481444E-03	2.713093E-01
C7	3.262057E-02	8.907416E-03	2.810822E-06	8.421461E-04
C8	-7.977585E-02	1.435294E-03	-2.898148E-06	-2.806043E-04
C9	-2.206287E-02	-1.886310E-03	9.980020E-06	-8.008928E-05
C10	-4.658850E-02	2.252460E-03	9.352594E-06	-8.197433E-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

Tecumseh

Performance Data Sheet

AVA7524ZXN

General

Model	AVA7524ZXN	**Unit of Measure**	Fahrenheit
Condition	ARI (R-449A)	**Voltage/Frequency**	230V~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
-10	Btu/h	15800	13000				
	Watts	2470	2390				
	Amps	12.6	12.6				
	Lb/h	200	178				
-5	Btu/h	18500	15500	13000			
	Watts	2620	2580	2520			
	Amps	13.1	13.2	13.2			
	Lb/h	235	213	197			
0	Btu/h	21300	18100	15400	12900		
	Watts	2760	2750	2720	2690		
	Amps	13.6	13.9	13.9	14.0		
	Lb/h	273	251	235	218		
5	Btu/h	24500	21000	18000	15200	12300	
	Watts	2870	2900	2900	2910	2920	
	Amps	14.2	14.5	14.7	14.8	14.9	
	Lb/h	314	292	276	259	237	
10	Btu/h	28000	24200	20900	17700	14400	
	Watts	2980	3040	3080	3110	3150	
	Amps	14.7	15.1	15.4	15.6	15.8	
	Lb/h	360	338	321	303	281	
15	Btu/h	31800	27700	24000	20500	16800	12600
	Watts	3090	3180	3250	3320	3390	3480
	Amps	15.3	15.8	16.1	16.5	16.8	17.2
	Lb/h	411	389	370	352	329	296
20	Btu/h	36000	31500	27400	23400	19300	14700
	Watts	3190	3320	3430	3530	3630	3750
	Amps	15.8	16.4	16.9	17.3	17.8	18.3
	Lb/h	468	444	426	407	382	348
25	Btu/h	40500	35600	31100	26700	22100	16900
	Watts	3310	3480	3620	3760	3890	4040
	Amps	16.4	17.1	17.7	18.2	18.8	19.5
	Lb/h	531	506	487	467	441	406
30	Btu/h	45500	40100	35100	30200	25100	19400
	Watts	3450	3650	3830	4000	4170	4350
	Amps	17.1	17.8	18.5	19.1	19.8	20.6

	Lb/h	601	575	554	533	507	470

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.174894E+05	-9.198328E+01	-3.704891E+00	1.507485E+03
C2	8.314644E+02	-5.365166E+01	2.993614E-02	7.606127E+00
C3	-2.161912E+03	8.136946E+01	4.302458E-01	-3.149769E+01
C4	1.294382E+01	-4.545650E-01	5.048486E-04	9.973195E-02
C5	-5.545822E-01	1.041071E+00	-6.945980E-05	1.093530E-02
C6	1.634232E+01	-7.551203E-01	-3.481444E-03	2.713093E-01
C7	3.262057E-02	8.907416E-03	2.810822E-06	8.421461E-04
C8	-7.977585E-02	1.435294E-03	-2.898148E-06	-2.806043E-04
C9	-2.206287E-02	-1.886310E-03	9.980020E-06	-8.008928E-05
C10	-4.658850E-02	2.252460E-03	9.352594E-06	-8.197433E-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

Tecumseh

Performance Data Sheet

AVA7524ZXN

General

Model	AVA7524ZXN	**Unit of Measure**	Fahrenheit
Condition	ARI (R-452A)	**Voltage/Frequency**	230V~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
-10	Btu/h	16400	13500				
	Watts	2600	2520				
	Amps	13.3	13.3				
	Lb/h	277	247				
-5	Btu/h	19100	16000	13500			
	Watts	2770	2720	2660			
	Amps	13.8	13.9	13.9			
	Lb/h	325	295	273			
0	Btu/h	22100	18800	16000	13400		
	Watts	2910	2900	2870	2840		
	Amps	14.3	14.6	14.7	14.7		
	Lb/h	378	348	325	302		
5	Btu/h	25400	21800	18700	15800	12700	
	Watts	3030	3060	3060	3060	3080	
	Amps	14.9	15.2	15.4	15.5	15.7	
	Lb/h	435	405	382	358	328	
10	Btu/h	29000	25100	21700	18400	15000	
	Watts	3140	3210	3250	3280	3330	
	Amps	15.5	15.9	16.2	16.4	16.7	
	Lb/h	499	468	444	420	389	
15	Btu/h	33000	28700	24900	21200	17400	13100
	Watts	3250	3350	3430	3500	3580	3670
	Amps	16.1	16.6	17.0	17.3	17.7	18.1
	Lb/h	570	538	513	488	456	410
20	Btu/h	37300	32700	28400	24300	20000	15200
	Watts	3370	3510	3620	3720	3830	3960
	Amps	16.7	17.3	17.8	18.2	18.7	19.3
	Lb/h	648	616	590	563	530	483
25	Btu/h	42000	37000	32300	27700	22900	17600
	Watts	3490	3670	3820	3960	4100	4260
	Amps	17.3	18.0	18.6	19.2	19.8	20.5
	Lb/h	735	702	674	646	612	563
30	Btu/h	47200	41600	36500	31300	26000	20100
	Watts	3640	3850	4040	4220	4390	4580
	Amps	17.9	18.7	19.4	20.1	20.8	21.7

	Lb/h	832	797	768	739	702	651

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.218420E+05	-9.700158E+01	-3.895520E+00	2.088125E+03
C2	8.622670E+02	-5.657871E+01	3.147645E-02	1.053579E+01
C3	-2.242003E+03	8.580869E+01	4.523834E-01	-4.362972E+01
C4	1.342334E+01	-4.793646E-01	5.308247E-04	1.381459E-01
C5	-5.751273E-01	1.097869E+00	-7.303374E-05	1.514727E-02
C6	1.694774E+01	-7.963170E-01	-3.660576E-03	3.758101E-01
C7	3.382904E-02	9.393374E-03	2.955448E-06	1.166517E-03
C8	-8.273124E-02	1.513599E-03	-3.047268E-06	-3.886852E-04
C9	-2.288022E-02	-1.989221E-03	1.049353E-05	-1.109374E-04
C10	-4.831443E-02	2.375347E-03	9.833817E-06	-1.135485E-03

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