



Tecumseh

Performance Data Sheet

AVA5542EXN

General Information

Model	AVA5542EXN	Refrigerant	R-22
Test Condition	ASHRAE	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	11400	10500					
	Watts	1830	1700					
	Amps	8.95	8.56					
	Lb/h	162	146					
-10	Btu/h	13600	12300	11000				
	Watts	2010	1900	1790				
	Amps	9.55	9.24	8.95				
	Lb/h	186	168	150				
-5	Btu/h	16200	14500	12900	11300			
	Watts	2170	2090	2020	1950			
	Amps	10.2	9.95	9.75	9.56			
	Lb/h	216	196	176	156			
0	Btu/h	19200	17300	15300	13300	11400		
	Watts	2320	2280	2230	2190	2150		
	Amps	10.8	10.7	10.6	10.5	10.4		
	Lb/h	252	230	207	185	162		
5	Btu/h	22800	20500	18200	15900	13500		
	Watts	2450	2450	2440	2430	2420		
	Amps	11.4	11.4	11.4	11.4	11.4		
	Lb/h	294	269	245	220	196		
10	Btu/h	26700	24100	21500	18800	16200	13500	10900
	Watts	2570	2600	2630	2650	2670	2700	2720
	Amps	11.9	12.1	12.2	12.4	12.5	12.6	12.7
	Lb/h	340	314	288	262	235	208	181
15	Btu/h	31000	28100	25200	22200	19300	16300	13300
	Watts	2670	2740	2800	2860	2910	2970	3020
	Amps	12.4	12.7	13.0	13.3	13.5	13.7	14.0
	Lb/h	392	364	337	308	280	251	221
20	Btu/h	35800	32600	29300	26100	22800	19500	16200
	Watts	2750	2850	2950	3050	3140	3230	3320
	Amps	12.8	13.3	13.7	14.1	14.5	14.9	15.2
	Lb/h	448	419	390	360	330	299	268

25	Btu/h	40900	37400	33900	30300	26800	23200	19600
	Watts	2810	2950	3080	3220	3350	3480	3600
	Amps	13.2	13.8	14.4	15.0	15.5	16.0	16.5
	Lb/h	509	479	448	417	385	353	320
30	Btu/h	46400	42700	38800	35000	31100	27200	23300
	Watts	2840	3020	3200	3370	3540	3700	3860
	Amps	13.4	14.2	14.9	15.7	16.4	17.1	17.7
	Lb/h	573	542	510	478	445	412	377
35	Btu/h	52300	48200	44200	40000	35900	31700	27500
	Watts	2850	3070	3280	3500	3700	3910	4110
	Amps	13.4	14.4	15.4	16.3	17.2	18.0	18.8
	Lb/h	640	609	576	543	509	475	439
40	Btu/h	58500	54200	49800	45400	41000	36600	32100
	Watts	2820	3090	3340	3600	3850	4090	4330
	Amps	13.4	14.6	15.7	16.8	17.9	18.9	19.9
	Lb/h	711	679	646	612	578	542	506
45	Btu/h	65100	60500	55900	51200	46500	41800	37000
	Watts	2770	3080	3380	3670	3960	4250	4530
	Amps	13.1	14.6	15.9	17.2	18.5	19.7	20.9
	Lb/h	785	753	719	685	650	613	576
50	Btu/h	71900	67100	62200	57300	52400	47400	42300
	Watts	2680	3040	3380	3720	4060	4380	4700
	Amps	12.7	14.4	15.9	17.5	18.9	20.3	21.7
	Lb/h	861	829	795	760	725	688	650
55	Btu/h	79100	74000	68900	63800	58500	53300	48000
	Watts	2570	2960	3350	3740	4120	4490	4850
	Amps	12.1	14.0	15.8	17.5	19.2	20.8	22.4
	Lb/h	940	907	874	839	803	766	728

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.511398E+04	2.669351E+03	1.167313E+01	4.334676E+02
C2	1.153265E+03	-2.911056E+01	-1.057178E-01	1.034165E+01
C3	-2.004034E+02	-4.658915E+00	-1.399424E-02	-2.316460E+00
C4	7.455840E+00	-4.867437E-01	-2.240618E-03	7.718393E-02
C5	-5.850715E+00	7.673005E-01	3.283134E-03	-2.386078E-02
C6	3.651690E-02	4.958913E-03	4.809938E-05	8.673915E-04
C7	-1.883373E-02	-2.557578E-03	-2.480743E-05	-4.473604E-04
C8	1.749664E-02	2.376004E-03	2.304625E-05	4.156003E-04
C9	-4.289976E-03	-5.825691E-04	-5.650677E-06	-1.019005E-04
C10	-1.339213E-04	-1.818621E-05	-1.763986E-07	-3.181053E-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