Tecumseh

Performance Data Sheet

AVA5542EXG

General

Model	AVA5542EXG	**Unit of Measure**	Fahrenheit
Condition	ASHRAE	**Voltage/Frequency**	460V 3~ 60HZ
RETURN GAS	-6.7°C (20°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

EVAP TEMP (°F)		Condensing Temperature (°F)							
		80	90	100	110	120	130	140	150
-15	Btu/h	10800							
	Watts	1810							
	Amps	3.89							
	Lb/h	140							
-10	Btu/h	13700	11500						
	Watts	1940	1920						
	Amps	4.02	4.02						
	Lb/h	177	154						
-5	Btu/h	16800	14400	12400					
	Watts	2070	2080	2090					
	Amps	4.14	4.16	4.18					
	Lb/h	215	192	171					
0	Btu/h	20000	17500	15300	13300				
	Watts	2190	2230	2270	2300				
	Amps	4.25	4.29	4.33	4.37				
	Lb/h	254	231	210	190				
5	Btu/h	23500	20800	18400	16200	14200			
	Watts	2290	2370	2440	2510	2550			
	Amps	4.36	4.42	4.49	4.54	4.58			
	Lb/h	295	272	251	231	211			
10	Btu/h	27200	24300	21700	19300	17100	15000		
	Watts	2390	2500	2600	2700	2780	2820		
	Amps	4.46	4.54	4.63	4.71	4.78	4.82		
	Lb/h	338	315	294	273	253	232		
15	Btu/h	31200	28100	25300	22700	20200	17900	15600	
	Watts	2480	2610	2750	2880	2990	3070	3110	
	Amps	4.54	4.65	4.76	4.88	4.97	5.05	5.08	
	Lb/h	384	361	339	318	297	275	253	
20	Btu/h	35500	32200	29200	26300	23600	21000	18500	16000
	Watts	2540	2710	2880	3050	3190	3300	3380	3400
	Amps	4.61	4.74	4.89	5.03	5.16	5.27	5.34	5.36
	Lb/h	433	410	387	366	344	321	298	272
25	Btu/h	40200	36700	33400	30200	27200	24400	21600	18800
	Watts	2600	2800	3000	3200	3380	3520	3630	3690
	Amps	4.66	4.82	4.99	5.17	5.34	5.48	5.59	5.66

	Lb/h	487	463	439	417	394	370	345	319
30	Btu/h	45300	41500	37900	34500	31200	28100	25000	21900
	Watts	2630	2860	3100	3330	3540	3730	3870	3960
	Amps	4.70	4.88	5.09	5.30	5.50	5.68	5.83	5.94
	Lb/h	544	519	495	472	448	423	396	368
35	Btu/h	50700	46700	42800	39100	35600	32100	28700	25300
	Watts	2650	2910	3180	3450	3690	3910	4090	4210
	Amps	4.71	4.93	5.16	5.41	5.65	5.87	6.06	6.22
	Lb/h	607	581	556	531	505	479	451	421
40	Btu/h	56600	52300	48200	44200	40300	36500	32700	29000
	Watts	2640	2940	3250	3540	3820	4080	4290	4450
	Amps	4.71	4.95	5.22	5.50	5.78	6.04	6.28	6.48
	Lb/h	675	648	621	595	568	540	511	479
45	Btu/h	63000	58400	53900	49600	45400	41300	37200	33100
	Watts	2610	2950	3290	3620	3930	4220	4470	4660
	Amps	4.67	4.95	5.26	5.58	5.89	6.20	6.48	6.73
	Lb/h	749	720	692	665	636	606	575	541
50	Btu/h	69900	65000	60200	55500	51000	46500	42000	37600
	Watts	2560	2930	3300	3670	4020	4340	4620	4860
	Amps	4.62	4.93	5.27	5.63	5.99	6.34	6.67	6.97
	Lb/h	829	799	770	740	710	678	645	609
55	Btu/h	77300	72100	66900	61900	57000	52200	47300	42500
	Watts	2480	2880	3290	3700	4080	4440	4760	5030
	Amps	4.53	4.88	5.26	5.66	6.06	6.46	6.84	7.18
	Lb/h	916	885	854	822	790	756	720	682

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.342742E+04	3.230548E+03	5.429745E+00	5.629497E+02
C2	8.657355E+02	-2.544879E+01	8.688488E-03	6.862736E+00
C3	-6.072007E+02	-4.129029E+01	-4.562020E-02	-5.953803E+00
C4	6.936807E+00	-2.568356E-01	-4.075900E-04	6.254496E-02
C5	-1.600052E+00	5.830994E-01	-3.558983E-05	2.396483E-02
C6	2.799461E+00	4.977386E-01	5.460439E-04	3.373866E-02
C7	4.001479E-02	-2.097091E-03	-2.540891E-06	6.851080E-04
C8	-2.944389E-02	6.770701E-04	2.920932E-06	-3.301097E-04
C9	-1.070490E-02	2.502913E-04	2.574683E-06	-1.256818E-04
C10	-5.426586E-03	-1.810616E-03	-1.993680E-06	-9.480552E-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