



# Tecumseh

## Performance Data Sheet

### AGA5561EXT

### General Information

<b>Model</b>	AGA5561EXT	<b>Refrigerant</b>	R-22
<b>Test Condition</b>	ASHRAE	<b>Performance Test Voltage</b>	230V 3~ 60HZ
<b>Return Gas</b>	18.3°C (65°F) RETURN GAS	<b>Motor Type</b>	3PH

### Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	19700	18700					
	Watts	3020	2860					
	Amps	9.03	8.48					
	Lb/h	269	247					
-10	Btu/h	21600	20200	18800				
	Watts	3180	3050	2920				
	Amps	9.58	9.13	8.69				
	Lb/h	292	268	244				
-5	Btu/h	24200	22400	20600	18800			
	Watts	3340	3250	3150	3060			
	Amps	10.1	9.77	9.43	9.09			
	Lb/h	324	298	272	246			
0	Btu/h	27600	25300	23100	20900	18700		
	Watts	3510	3450	3390	3330	3270		
	Amps	10.6	10.4	10.2	9.93	9.70		
	Lb/h	364	336	309	281	254		
5	Btu/h	31600	29000	26400	23800	21100		
	Watts	3680	3650	3620	3600	3570		
	Amps	11.1	11.0	10.9	10.7	10.6		
	Lb/h	411	382	354	325	296		
10	Btu/h	36400	33400	30300	27300	24300	21300	18300
	Watts	3840	3850	3860	3870	3880	3890	3900
	Amps	11.6	11.6	11.6	11.5	11.5	11.5	11.5
	Lb/h	467	437	407	377	347	317	287
15	Btu/h	41900	38400	35000	31600	28100	24700	21300
	Watts	4010	4060	4100	4140	4190	4230	4280
	Amps	12.0	12.1	12.2	12.3	12.4	12.5	12.6
	Lb/h	531	499	468	436	405	374	343
20	Btu/h	48000	44200	40400	36500	32700	28900	25000
	Watts	4180	4260	4340	4420	4500	4580	4660
	Amps	12.4	12.7	12.9	13.1	13.3	13.5	13.7
	Lb/h	602	569	537	504	471	439	406

25	Btu/h	54800	50600	46400	42200	37900	33700	29500
	Watts	4340	4460	4580	4690	4810	4920	5040
	Amps	12.8	13.2	13.5	13.8	14.1	14.5	14.8
	Lb/h	680	646	613	579	546	512	478
30	Btu/h	62300	57700	53100	48500	43900	39300	34600
	Watts	4510	4660	4810	4970	5120	5270	5420
	Amps	13.2	13.6	14.1	14.5	15.0	15.4	15.8
	Lb/h	765	731	697	662	628	593	558
35	Btu/h	70400	65400	60500	55500	50500	45500	40500
	Watts	4660	4860	5050	5240	5430	5620	5800
	Amps	13.5	14.1	14.6	15.2	15.7	16.3	16.8
	Lb/h	858	823	788	753	717	681	645
40	Btu/h	79100	73800	68500	63100	57800	52400	47000
	Watts	4810	5050	5280	5510	5730	5960	6180
	Amps	13.7	14.4	15.1	15.8	16.5	17.2	17.8
	Lb/h	957	922	886	850	814	777	740
45	Btu/h	88500	82800	77100	71400	65700	60000	54200
	Watts	4960	5230	5500	5770	6040	6300	6560
	Amps	14.0	14.8	15.6	16.4	17.2	18.0	18.8
	Lb/h	1060	1030	991	954	917	880	843
50	Btu/h	98400	92400	86400	80400	74300	68200	62000
	Watts	5100	5410	5720	6030	6330	6640	6940
	Amps	14.1	15.1	16.0	17.0	17.9	18.8	19.7
	Lb/h	1170	1140	1100	1070	1030	990	952
55	Btu/h			96300	89900	83500	77000	70500
	Watts	5230	5580	5930	6280	6630	6970	7310
	Amps	14.3	15.3	16.4	17.5	18.5	19.6	20.6
	Lb/h	1290	1260	1220	1180	1150	1110	1070

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.573439E+04	4.031312E+03	1.260251E+01	5.900292E+02
C2	1.376375E+03	-2.391434E+01	-8.066041E-02	1.058389E+01
C3	-2.294099E+02	-6.733020E+00	-2.528121E-02	-2.866358E+00
C4	1.300350E+01	-7.043041E-02	-7.187807E-04	1.419904E-01
C5	-7.553126E+00	7.461545E-01	2.354868E-03	-1.719740E-02
C6	1.178373E-02	9.756046E-04	2.886280E-06	1.830983E-04
C7	-1.587222E-02	-1.314101E-03	-3.887706E-06	-2.466263E-04
C8	1.570324E-02	1.300111E-03	3.846316E-06	2.440006E-04
C9	-4.446765E-03	-3.681590E-04	-1.089181E-06	-6.909489E-05
C10	2.129478E-04	1.763049E-05	5.215897E-08	3.308833E-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