Tecumseh

Performance Data Sheet

RK5490E-NA3A

General

Model	RK5490E-NA3A	**Unit of Measure**	Fahrenheit
Condition	ASHRAE (R-22)	**Voltage/Frequency**	230V~60HZ
RETURN GAS	35°C (95°F) RETURN GAS	**MotorType**	PSC

Performance Information

EVAP TEMP (°F)		Condensing Temperature (°F)							
		80	**90**	**100**	**110**	**120**	**130**	**140**	**150**
-10	Btu/h	9440	8130	7370	6980	6800	6650	6350	5750
	Watts	547	671	760	825	875	922	976	1050
	Amps	2.38	2.92	3.30	3.58	3.80	4.01	4.24	4.56
	Lb/h	56.6	50.1	46.6	45.2	44.8	44.5	43.5	40.8
-5	Btu/h	8180	6880	6130	5750	5580	5440	5170	4590
	Watts	509	633	721	784	833	877	929	998
	Amps	2.21	2.75	3.13	3.41	3.62	3.81	4.04	4.34
	Lb/h	48.7	42.3	38.8	37.3	36.9	36.7	35.7	33.0
0	Btu/h	7320	6020	5270	4900	4730	4610	4340	3780
	Watts	484	608	696	758	805	849	899	966
	Amps	2.10	2.64	3.02	3.29	3.50	3.69	3.90	4.20
	Lb/h	43.3	36.8	33.3	31.9	31.5	31.3	30.3	27.6
5	Btu/h	6820	5520	4770	4400	4230	4110	3860	3300
	Watts	469	593	682	744	791	834	882	948
	Amps	2.04	2.58	2.96	3.23	3.44	3.62	3.83	4.12
	Lb/h	40.1	33.7	30.2	28.7	28.3	28.1	27.1	24.5
10	Btu/h	6660	5350	4590	4220	4050	3930	3680	3130
	Watts	460	587	676	739	786	829	877	942
	Amps	2.00	2.55	2.94	3.21	3.42	3.60	3.81	4.09
	Lb/h	39.0	32.6	29.0	27.6	27.2	27.0	26.0	23.3
15	Btu/h	6820	5490	4720	4340	4170	4040	3790	3230
	Watts	456	585	676	741	789	833	881	946
	Amps	1.98	2.54	2.94	3.22	3.43	3.62	3.83	4.11
	Lb/h	39.8	33.3	29.8	28.3	27.9	27.7	26.7	24.1
20	Btu/h	7270	5920	5130	4740	4550	4410	4150	3590
	Watts	454	586	680	747	797	842	891	957
	Amps	1.97	2.55	2.95	3.24	3.46	3.66	3.87	4.16
	Lb/h	42.3	35.8	32.2	30.7	30.3	30.1	29.1	26.5
25	Btu/h	7980	6610	5800	5380	5180	5030	4750	4180
	Watts	452	587	684	754	807	854	905	972
	Amps	1.96	2.55	2.97	3.28	3.51	3.71	3.93	4.22
	Lb/h	46.2	39.7	36.2	34.6	34.2	34.0	33.1	30.4
30	Btu/h	8920	7530	6690	6250	6030	5850	5560	4970
	Watts	446	586	687	760	816	866	920	989
	Amps	1.94	2.54	2.98	3.30	3.55	3.76	4.00	4.30

	Lb/h	51.5	45.0	41.4	39.9	39.5	39.2	38.3	35.6
35	Btu/h	10100	8660	7790	7320	7070	6870	6550	5950
	Watts	434	579	685	763	823	876	933	1000
	Amps	1.89	2.52	2.98	3.31	3.58	3.81	4.06	4.37
	Lb/h	57.9	51.4	47.8	46.2	45.8	45.6	44.6	41.9
40	Btu/h	11400	9970	9060	8560	8270	8050	7700	7070
	Watts	414	565	676	759	824	881	942	1020
	Amps	1.80	2.45	2.94	3.30	3.58	3.83	4.10	4.42
	Lb/h	65.3	58.7	55.1	53.5	53.1	52.8	51.8	49.2
45	Btu/h	12900	11400	10500	9940	9620	9360	8980	8320
	Watts	383	540	658	746	816	879	945	1020
	Amps	1.66	2.35	2.86	3.24	3.55	3.82	4.11	4.45
	Lb/h	73.4	66.8	63.2	61.6	61.1	60.9	59.9	57.2
50	Btu/h	14600	13000	12000	11500	11100	10800	10400	9670
	Watts	338	503	627	722	799	867	938	1020
	Amps	1.47	2.18	2.72	3.14	3.47	3.77	4.08	4.44
	Lb/h	82.1	75.4	71.8	70.2	69.7	69.4	68.4	65.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.799406E+04	-3.095720E+03	-1.345452E+01	3.130705E+02
C2	-1.176020E+02	-7.499712E+00	-3.258646E-02	-8.135654E-01
C3	-1.286007E+03	8.633504E+01	3.752192E-01	-6.913037E+00
C4	8.113708E+00	7.858041E-02	3.414593E-04	4.526879E-02
C5	-3.976997E-01	7.501394E-02	3.259210E-04	-7.208564E-04
C6	1.043544E+01	-6.624868E-01	-2.879257E-03	5.667384E-02
C7	-3.389946E-02	-3.453288E-03	-1.500600E-05	-2.482673E-04
C8	-9.996002E-03	1.440020E-03	6.257527E-06	-3.971643E-06
C9	2.187028E-03	-3.872811E-04	-1.682720E-06	3.155857E-06
C10	-2.847768E-02	1.782872E-03	7.748620E-06	-1.551573E-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