

RK5490E-AA3A

General

Model	RK5490E-AA3A	Unit of Measure	Fahrenheit
Condition	ASHRAE (R-22)	Voltage/Frequency	115V~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	9370	8080	7320	6930	6750	6600	6310	5710
	Watts	539	662	750	813	863	909	963	1030
	Amps	4.84	5.95	6.74	7.31	7.75	8.17	8.65	9.29
	Lb/h	56.4	50.0	46.4	45.0	44.6	44.3	43.3	40.6
-5	Btu/h	8120	6830	6080	5710	5530	5400	5120	4550
	Watts	502	624	711	773	821	865	916	985
	Amps	4.51	5.61	6.39	6.95	7.38	7.77	8.23	8.85
	Lb/h	48.6	42.1	38.6	37.1	36.7	36.5	35.5	32.8
0	Btu/h	7260	5970	5220	4850	4690	4560	4300	3740
	Watts	477	600	686	748	795	837	886	953
	Amps	4.29	5.39	6.16	6.72	7.14	7.52	7.96	8.56
	Lb/h	43.2	36.7	33.2	31.7	31.3	31.0	30.1	27.4
5	Btu/h	6760	5470	4720	4350	4190	4070	3810	3260
	Watts	462	585	672	734	780	822	870	935
	Amps	4.15	5.26	6.04	6.59	7.01	7.39	7.82	8.40
	Lb/h	40.0	33.5	30.0	28.5	28.1	27.9	26.9	24.2
10	Btu/h	6610	5300	4550	4170	4010	3890	3640	3090
	Watts	454	579	667	729	776	818	865	929
	Amps	4.08	5.20	5.99	6.55	6.97	7.34	7.77	8.35
	Lb/h	38.9	32.4	28.8	27.3	27.0	26.7	25.7	23.1
15	Btu/h	6760	5450	4680	4300	4120	4000	3740	3190
	Watts	450	577	667	731	779	821	869	933
	Amps	4.04	5.18	5.99	6.56	6.99	7.38	7.81	8.38
	Lb/h	39.7	33.1	29.6	28.1	27.7	27.5	26.5	23.8
20	Btu/h	7210	5870	5090	4690	4510	4370	4110	3550
	Watts	448	578	671	736	786	830	879	944
	Amps	4.03	5.19	6.02	6.61	7.06	7.46	7.90	8.48
	Lb/h	42.1	35.6	32.0	30.5	30.1	29.9	28.9	26.2
25	Btu/h	7920	6560	5750	5340	5140	4980	4710	4140
	Watts	446	579	675	744	796	842	893	959
	Amps	4.00	5.20	6.06	6.68	7.15	7.56	8.02	8.61
	Lb/h	46.1	39.5	36.0	34.4	34.0	33.8	32.8	30.1
30	Btu/h	8870	7480	6650	6200	5980	5810	5510	4930
	Watts	440	578	677	750	805	854	907	975
	Amps	3.95	5.19	6.08	6.73	7.23	7.67	8.15	8.76

	Lb/h	51.4	44.8	41.2	39.7	39.2	39.0	38.0	35.3
35	Btu/h	10000	8600	7740	7270	7020	6820	6500	5900
	Watts	428	571	676	752	812	864	921	991
	Amps	3.85	5.13	6.07	6.76	7.29	7.76	8.27	8.90
	Lb/h	57.8	51.2	47.6	46.0	45.6	45.3	44.3	41.7
40	Btu/h	11400	9910	9010	8510	8220	8000	7650	7020
	Watts	408	557	667	749	813	869	930	1000
	Amps	3.67	5.00	5.99	6.72	7.30	7.81	8.35	9.02
	Lb/h	65.2	58.5	54.9	53.3	52.9	52.6	51.6	48.9
45	Btu/h	12900	11400	10400	9890	9570	9310	8930	8270
	Watts	378	533	649	736	805	867	932	1010
	Amps	3.39	4.78	5.83	6.61	7.23	7.79	8.37	9.08
	Lb/h	73.3	66.6	63.0	61.4	60.9	60.6	59.6	56.9
50	Btu/h	14500	13000	12000	11400	11000	10700	10300	9620
	Watts	333	496	619	712	788	855	925	1010
	Amps	2.99	4.45	5.56	6.40	7.07	7.68	8.31	9.06
	Lb/h	82.0	75.3	71.6	70.0	69.5	69.2	68.2	65.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.759042E+04	-3.054904E+03	-2.743325E+01	3.139967E+02
C2	-1.166004E+02	-7.394940E+00	-6.644251E-02	-8.141026E-01
C3	-1.277165E+03	8.519276E+01	7.650572E-01	-6.939281E+00
C4	8.098476E+00	7.749351E-02	6.962223E-04	4.534247E-02
C5	-4.073126E-01	7.395545E-02	6.645403E-04	-7.365048E-04
C6	1.036298E+01	-6.537329E-01	-5.870692E-03	5.688001E-02
C7	-3.379641E-02	-3.406447E-03	-3.059665E-05	-2.487110E-04
C8	-9.991831E-03	1.420649E-03	1.275885E-05	-4.118121E-06
C9	2.217103E-03	-3.818915E-04	-3.431000E-06	3.239041E-06
C10	-2.827998E-02	1.759314E-03	1.579913E-05	-1.557184E-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