

RK5513E-AA3A

General

Model	RK5513E-AA3A	Unit of Measure	Fahrenheit
Condition	ASHRAE (R-22)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	35°C (95°F) RETURN GAS	Motor Type	PSC

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
		80	90	100	110	120	130	140	150
-10	Btu/h	12700	10900	9930	9420	9170	8970	8590	7790
	Watts	729	895	1010	1100	1170	1230	1300	1400
	Amps	6.97	8.56	9.70	10.5	11.2	11.8	12.4	13.4
	Lb/h	75.8	67.3	62.6	60.7	60.2	59.9	58.6	55.1
-5	Btu/h	11000	9270	8270	7770	7540	7360	7000	6230
	Watts	679	845	962	1050	1110	1170	1240	1330
	Amps	6.49	8.07	9.20	10.0	10.6	11.2	11.8	12.7
	Lb/h	65.3	56.8	52.2	50.2	49.8	49.5	48.2	44.6
0	Btu/h	9820	8110	7120	6630	6410	6240	5890	5150
	Watts	646	811	928	1010	1070	1130	1200	1290
	Amps	6.17	7.75	8.87	9.67	10.3	10.8	11.5	12.3
	Lb/h	58.1	49.6	44.9	43.0	42.5	42.3	41.0	37.4
5	Btu/h	9160	7440	6450	5960	5740	5580	5240	4510
	Watts	625	792	909	992	1060	1110	1180	1260
	Amps	5.98	7.57	8.69	9.49	10.1	10.6	11.3	12.1
	Lb/h	53.9	45.3	40.7	38.8	38.3	38.0	36.7	33.2
10	Btu/h	8940	7210	6210	5720	5500	5340	5000	4270
	Watts	614	782	902	986	1050	1110	1170	1260
	Amps	5.87	7.48	8.62	9.42	10.0	10.6	11.2	12.0
	Lb/h	52.4	43.8	39.2	37.3	36.8	36.5	35.2	31.7
15	Btu/h	9150	7410	6390	5880	5650	5480	5140	4410
	Watts	609	780	902	988	1050	1110	1180	1260
	Amps	5.82	7.46	8.62	9.45	10.1	10.6	11.2	12.1
	Lb/h	53.5	44.9	40.2	38.2	37.7	37.5	36.2	32.7
20	Btu/h	9750	7980	6940	6410	6170	5980	5640	4900
	Watts	606	782	907	996	1060	1120	1190	1280
	Amps	5.79	7.47	8.67	9.52	10.2	10.7	11.4	12.2
	Lb/h	56.8	48.1	43.4	41.5	41.0	40.7	39.4	35.9
25	Btu/h	10700	8900	7830	7270	7010	6800	6440	5690
	Watts	603	783	913	1010	1080	1140	1210	1300
	Amps	5.76	7.49	8.73	9.61	10.3	10.9	11.5	12.4
	Lb/h	62.0	53.4	48.7	46.7	46.2	45.9	44.6	41.1
30	Btu/h	12000	10100	9020	8440	8140	7910	7520	6750
	Watts	595	781	916	1010	1090	1160	1230	1320
	Amps	5.69	7.47	8.76	9.69	10.4	11.0	11.7	12.6

	Lb/h	69.1	60.4	55.7	53.7	53.1	52.9	51.6	48.1
35	Btu/h	13500	11600	10500	9860	9530	9270	8850	8050
	Watts	579	772	914	1020	1100	1170	1240	1340
	Amps	5.54	7.38	8.74	9.73	10.5	11.2	11.9	12.8
	Lb/h	77.6	68.9	64.2	62.1	61.6	61.3	60.0	56.5
40	Btu/h	15300	13400	12200	11500	11100	10800	10400	9550
	Watts	552	753	902	1010	1100	1180	1260	1360
	Amps	5.28	7.20	8.62	9.68	10.5	11.2	12.0	13.0
	Lb/h	87.4	78.7	73.9	71.9	71.3	71.0	69.7	66.2
45	Btu/h	17300	15300	14100	13400	13000	12600	12100	11200
	Watts	511	720	877	996	1090	1170	1260	1370
	Amps	4.88	6.89	8.39	9.52	10.4	11.2	12.1	13.1
	Lb/h	98.2	89.5	84.6	82.6	82.0	81.7	80.4	76.8
50	Btu/h	19600	17500	16200	15400	14900	14500	14000	13000
	Watts	451	670	837	963	1070	1160	1250	1360
	Amps	4.31	6.41	8.00	9.21	10.2	11.1	12.0	13.0
	Lb/h	110	101	96.1	94.0	93.4	93.1	91.8	88.2

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.650328E+04	-4.131281E+03	-3.948989E+01	4.168498E+02
C2	-1.580381E+02	-1.000444E+01	-9.564337E-02	-1.085933E+00
C3	-1.691919E+03	1.152112E+02	1.101292E+00	-9.195505E+00
C4	1.085921E+01	1.048340E-01	1.002205E-03	6.032624E-02
C5	-5.219539E-01	1.000612E-01	9.565996E-04	-9.371518E-04
C6	1.372684E+01	-8.840846E-01	-8.450804E-03	7.541171E-02
C7	-4.548016E-02	-4.606975E-03	-4.404358E-05	-3.312272E-04
C8	-1.334129E-02	1.921091E-03	1.836625E-05	-5.043318E-06
C9	2.882268E-03	-5.166051E-04	-4.938892E-06	4.088459E-06
C10	-3.745845E-02	2.379242E-03	2.274270E-05	-2.064799E-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