Performance Data Sheet

RK5514E-AA3A

General

Model	RK5514E-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	13400	11600	10500	9960	9700	9480	9080	8230
	Watts	780	957	1080	1180	1250	1310	1390	1500
	Amps	7.16	8.79	9.95	10.8	11.5	12.1	12.8	13.7
	Lb/h	80.4	71.3	66.4	64.3	63.8	63.5	62.1	58.3
-5	Btu/h	11600	9810	8750	8220	7970	7780	7400	6580
	Watts	726	903	1030	1120	1190	1250	1330	1420
	Amps	6.67	8.29	9.44	10.3	10.9	11.5	12.2	13.1
	Lb/h	69.3	60.2	55.3	53.2	52.7	52.4	51.0	47.2
0	Btu/h	10400	8590	7530	7010	6780	6600	6230	5430
	Watts	690	867	993	1080	1150	1210	1280	1380
	Amps	6.34	7.96	9.11	9.92	10.5	11.1	11.8	12.6
	Lb/h	61.6	52.5	47.6	45.5	45.0	44.7	43.3	39.6
5	Btu/h	9710	7870	6820	6290	6070	5890	5540	4750
	Watts	668	846	972	1060	1130	1190	1260	1350
	Amps	6.13	7.77	8.92	9.74	10.4	10.9	11.6	12.4
	Lb/h	57.1	48.0	43.1	41.0	40.5	40.2	38.8	35.1
10	Btu/h	9480	7640	6570	6040	5810	5640	5280	4500
	Watts	656	837	964	1050	1120	1180	1250	1340
	Amps	6.02	7.68	8.85	9.67	10.3	10.9	11.5	12.3
	Lb/h	55.6	46.4	41.5	39.4	38.9	38.6	37.2	33.5
15	Btu/h	9710	7840	6760	6220	5980	5790	5430	4650
	Watts	651	834	965	1060	1130	1190	1260	1350
	Amps	5.97	7.66	8.85	9.70	10.3	10.9	11.5	12.4
	Lb/h	56.6	47.5	42.5	40.5	39.9	39.6	38.3	34.5
20	Btu/h	10300	8450	7340	6780	6520	6330	5950	5170
	Watts	648	836	970	1070	1140	1200	1270	1360
	Amps	5.95	7.67	8.90	9.77	10.4	11.0	11.7	12.5
	Lb/h	60.1	51.0	46.0	43.9	43.4	43.1	41.7	38.0
25	Btu/h	11300	9420	8290	7700	7410	7200	6810	6000
	Watts	644	837	976	1080	1150	1220	1290	1390
	Amps	5.91	7.69	8.96	9.87	10.6	11.2	11.8	12.7
	Lb/h	65.7	56.6	51.6	49.4	48.9	48.6	47.2	43.5
30	Btu/h	12700	10700	9550	8930	8610	8370	7950	7130
	Watts	636	835	980	1080	1160	1240	1310	1410
	Amps	5.84	7.67	8.99	9.95	10.7	11.3	12.0	12.9
	Lb/h	73.2	64.0	59.0	56.8	56.3	56.0	54.6	50.9
35	Btu/h	14300	12300	11100	10400	10100	9810	9360	8510
	Watts	619	826	977	1090	1170	1250	1330	1430
	Amps	5.68	7.58	8.97	9.98	10.8	11.5	12.2	13.2
	Lb/h	82.3	73.0	68.0	65.8	65.3	64.9	63.6	59.8
40	Btu/h	16300	14200	12900	12200	11800	11500	11000	10100
	Watts	590	806	964	1080	1180	1260	1340	1450
	Amps	5.42	7.39	8.85	9.94	10.8	11.5	12.3	13.3
	Lb/h	92.7	83.4	78.4	76.2	75.6	75.2	73.8	70.1
45	Btu/h	18400	16300	14900	14200	13700	13300	12800	11900
	Watts	546	770	938	1060	1160	1250	1350	1460
	Amps	5.01	7.07	8.61	9.77	10.7	11.5	12.4	13.4
	Lb/h	104	94.9	89.8	87.6	86.9	86.6	85.2	81.4
50	Btu/h	20700	18500	17100	16300	15800	15400	14800	13800
	Watts	482	717	895	1030	1140	1240	1340	1460
	Amps	4.42	6.58	8.21	9.45	10.5	11.4	12.3	13.4
	Lb/h	116	107	102	99.7	99.1	98.7	97.3	93.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.168928E+04	-4.418178E+03	-4.053830E+01	4.422825E+02
C2	-1.670936E+02	-1.069921E+01	-9.818257E-02	-1.153170E+00
C3	-1.808779E+03	1.232116E+02	1.130530E+00	-9.757646E+00
C4	1.148609E+01	1.120933E-01	1.028813E-03	6.409360E-02
C5	-5.484946E-01	1.070194E-01	9.819958E-04	-1.004900E-03
C6	1.467710E+01	-9.454846E-01	-8.675162E-03	8.001439E-02

C7	-4.797081E-02	-4.926532E-03	-4.521288E-05	-3.518703E-04
C8	-1.405038E-02	2.054451E-03	1.885385E-05	-5.462293E-06
C9	3.011303E-03	-5.525281E-04	-5.070013E-06	4.394460E-06
C10	-4.005247E-02	2.544495E-03	2.334649E-05	-2.190785E-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