

General

RK5510E-NA3A

Model RK5510E-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	10200	8870	8080	7670	7480	7320	7020	6390
	Watts	586	720	815	884	938	988	1050	1120
	Amps	2.59	3.18	3.60	3.91	4.15	4.37	4.63	4.97
	Lb/h	60.9	54.2	50.6	49.1	48.8	48.6	47.6	44.8
-5	Btu/h	8900	7540	6750	6350	6170	6030	5740	5130
	Watts	546	679	773	841	893	941	996	1070
	Amps	2.41	3.00	3.42	3.72	3.95	4.16	4.40	4.73
	Lb/h	52.6	45.9	42.3	40.8	40.4	40.3	39.3	36.5
0	Btu/h	7970	6610	5830	5440	5270	5130	4860	4260
	Watts	519	652	746	813	864	910	964	1040
	Amps	2.29	2.88	3.30	3.59	3.82	4.02	4.26	4.58
	Lb/h	46.8	40.1	36.5	35.0	34.7	34.5	33.5	30.8
5	Btu/h	7440	6070	5290	4900	4730	4600	4330	3750
	Watts	502	636	731	798	848	894	946	1020
	Amps	2.22	2.81	3.23	3.53	3.75	3.95	4.18	4.49
	Lb/h	43.5	36.8	33.2	31.7	31.3	31.1	30.2	27.4
10	Btu/h	7270	5900	5100	4710	4540	4410	4140	3560
	Watts	493	629	725	792	843	889	941	1010
	Amps	2.18	2.78	3.20	3.50	3.73	3.93	4.16	4.47
	Lb/h	42.3	35.6	32.0	30.5	30.1	29.9	29.0	26.2
15	Btu/h	7440	6050	5240	4840	4660	4520	4260	3670
	Watts	489	627	725	794	846	893	945	1010
	Amps	2.16	2.77	3.21	3.51	3.74	3.95	4.18	4.48
	Lb/h	43.2	36.4	32.8	31.3	30.9	30.7	29.8	27.0
20	Btu/h	7920	6510	5680	5260	5070	4930	4650	4060
	Watts	487	628	729	800	854	902	956	1030
	Amps	2.15	2.78	3.22	3.54	3.78	3.99	4.23	4.54
	Lb/h	45.8	39.0	35.3	33.8	33.5	33.3	32.3	29.6
25	Btu/h	8680	7240	6400	5960	5740	5580	5290	4690
	Watts	484	629	734	808	865	915	970	1040
	Amps	2.14	2.78	3.24	3.57	3.82	4.05	4.29	4.61
	Lb/h	50.0	43.2	39.5	38.0	37.6	37.4	36.4	33.7
30	Btu/h	9700	8230	7350	6890	6650	6470	6160	5540
	Watts	478	628	736	815	875	929	986	1060
	Amps	2.11	2.78	3.26	3.60	3.87	4.10	4.36	4.69
	Lb/h	55.5	48.7	45.1	43.5	43.1	43.0	42.0	39.2
35	Btu/h	10900	9440	8530	8030	7770	7560	7220	6580
	Watts	465	621	734	818	882	939	1000	1080
	Amps	2.06	2.74	3.25	3.61	3.90	4.15	4.42	4.76
	Lb/h	62.3	55.5	51.8	50.3	49.9	49.7	48.7	45.9
40	Btu/h	12400	10800	9890	9360	9060	8820	8460	7790
	Watts	444	605	725	814	883	945	1010	1090
	Amps	1.96	2.68	3.20	3.60	3.90	4.18	4.47	4.82
	Lb/h	70.1	63.3	59.6	58.0	57.6	57.4	56.4	53.6
45	Btu/h	14000	12400	11400	10800	10500	10200	9830	9130
	Watts	410	579	705	800	875	943	1010	1100
	Amps	1.81	2.56	3.12	3.54	3.87	4.17	4.48	4.86
	Lb/h	78.7	71.8	68.1	66.5	66.1	65.9	64.9	62.1
50	Btu/h	15800	14100	13100	12500	12100	11800	11300	10600
	Watts	362	539	672	774	856	930	1010	1100
	Amps	1.60	2.38	2.97	3.42	3.79	4.11	4.45	4.85
	Lb/h	87.9	81.0	77.2	75.6	75.2	74.9	73.9	71.2

	COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.115481E+04	-3.320493E+03	-1.467766E+01	3.294560E+02	
C2	-1.254257E+02	-8.042507E+00	-3.554886E-02	-8.629747E-01	
C3	-1.349924E+03	9.260043E+01	4.093300E-01	-7.249348E+00	
C4	8.678351E+00	8.427923E-02	3.725011E-04	4.790581E-02	
C5	-4.297026E-01	8.044003E-02	3.555502E-04	-7.387003E-04	
C6	1.095722E+01	-7.105822E-01	-3.141007E-03	5.949524E-02	

C7	-3.650651E-02	-3.702965E-03	-1.637018E-05	-2.632707E-04
C8	-1.047734E-02	1.544006E-03	6.826394E-06	-3.641117E-06
C9	2.321559E-03	-4.152763E-04	-1.835694E-06	3.200278E-06
C10	-2.990882E-02	1.912319E-03	8.453040E-06	-1.629456E-04

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature