Performance Data Sheet

RKA5490EXA

General Information

Model	RKA5490EXA	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	3380	3160					
	Watts	384	427					
	Amps	3.14	3.45					
	Lb/h	43.5	42.3					
-10	Btu/h	3740	3510	3280				
	Watts	395	441	484				
	Amps	3.22	3.57	3.94				
	Lb/h	47.9	46.7	45.6				
-5	Btu/h	4170	3910	3670	3430			
	Watts	407	454	500	545			
	Amps	3.31	3.69	4.09	4.51			
	Lb/h	53.0	51.7	50.6	49.4			
0	Btu/h	4660	4380	4110	3850	3600		
	Watts	419	467	515	563	611		
	Amps	3.40	3.81	4.24	4.69	5.16		
	Lb/h	58.9	57.6	56.3	55.1	53.9		
5	Btu/h	5210	4910	4620	4330	4050		
	Watts	430	480	530	580	631		
	Amps	3.49	3.93	4.39	4.87	5.36		
	Lb/h	65.5	64.1	62.8	61.5	60.2		
10	Btu/h	5830	5500	5180	4870	4560	4260	3960
	Watts	442	493	545	597	651	705	761
	Amps	3.58	4.04	4.53	5.04	5.56	6.09	6.63
	Lb/h	72.8	71.4	70.0	68.6	67.3	65.9	64.5
15	Btu/h	6520	6160	5810	5470	5130	4800	4460
	Watts	453	505	559	614	669	727	786
	Amps	3.67	4.16	4.67	5.20	5.74	6.30	6.87
	Lb/h	80.9	79.4	78.0	76.5	75.1	73.7	72.2
20	Btu/h	7270	6880	6500	6130	5760	5390	5020
	Watts	464	518	573	629	688	748	811
	Amps	3.76	4.27	4.81	5.36	5.93	6.51	7.10
	Lb/h	89.7	88.1	86.6	85.1	83.6	82.1	80.6

25	Btu/h	8080	7670	7260	6850	6440	6040	5640
	Watts	475	530	586	645	706	769	835
	Amps	3.85	4.38	4.94	5.51	6.10	6.70	7.31
	Lb/h	99.1	97.5	96.0	94.4	92.9	91.3	89.7
30	Btu/h	8970	8520	8070	7630	7190	6750	6300
	Watts	486	542	600	660	723	789	858
	Amps	3.94	4.49	5.07	5.66	6.27	6.89	7.52
	Lb/h	109	108	106	104	103	101	99.5
35	Btu/h	9920	9430	8950	8470	7990	7510	7030
	Watts	497	553	612	674	740	808	881
	Amps	4.04	4.61	5.20	5.81	6.43	7.07	7.72
	Lb/h	120	118	117	115	114	112	110
40	Btu/h	10900	10400	9880	9370	8850	8330	7800
	Watts	507	565	625	689	756	827	902
	Amps	4.13	4.71	5.32	5.95	6.59	7.24	7.90
	Lb/h	132	130	128	127	125	123	121
45	Btu/h	12000	11400	10900	10300	9760	9200	8630
	Watts	518	576	637	702	771	845	923
	Amps	4.23	4.82	5.44	6.08	6.73	7.40	8.08
	Lb/h	144	142	140	139	137	135	133
50	Btu/h	13200	12600	11900	11300	10700	10100	9520
	Watts	528	586	649	715	787	862	943
	Amps	4.33	4.93	5.56	6.21	6.88	7.55	8.24
	Lb/h	157	155	153	152	150	148	146
55	Btu/h	14400	13700	13100	12400	11800	11100	10500
	Watts	538	597	660	728	801	879	962
	Amps	4.43	5.04	5.68	6.34	7.01	7.70	8.39
	Lb/h	170	169	167	165	163	161	159

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.453352E+03	-7.215264E+00	1.261927E+00	7.375788E+01
C2	1.349695E+02	3.041434E+00	-3.031514E-02	1.318145E+00
C3	-4.325827E+01	6.021235E+00	1.061337E-02	-2.580310E-01
C4	1.612818E+00	1.449501E-02	3.181757E-04	1.400649E-02
C5	-3.136345E-01	-4.432820E-02	6.031403E-04	-4.764118E-04
C6	1.261614E-01	-1.157746E-02	2.409484E-04	1.166908E-03
C7	2.380321E-04	-8.884318E-07	2.581856E-07	-9.200430E-06
C8	-3.919920E-03	-2.132646E-04	-3.949620E-06	7.625267E-06
C9	-8.483488E-04	4.407499E-04	-3.371502E-08	-4.649100E-06
C10	-2.782566E-04	3.607167E-05	-4.917330E-07	-3.318425E-06

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