

RKA5480YUZ
General

Model	RKA5480YUZ	Unit of Measure	Celsius
Condition	EN12900	Voltage/Frequency	230V~50HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	PSC

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	580	544						
	Watts (Power)	455	469						
	Amps	3.38	3.38						
-23.3	Watts (Capacity)	636	599	559					
	Watts (Power)	463	478	493					
	Amps	3.40	3.40	3.41					
-20	Watts (Capacity)	755	714	671	625	579			
	Watts (Power)	477	495	513	530	547			
	Amps	3.43	3.44	3.46	3.49	3.54			
-15	Watts (Capacity)	968	920	867	811	753	695		
	Watts (Power)	494	516	539	562	584	606		
	Amps	3.46	3.49	3.53	3.58	3.65	3.72		
-10	Watts (Capacity)	1230	1170	1100	1030	961	888	815	
	Watts (Power)	507	534	561	589	617	645	673	
	Amps	3.48	3.53	3.59	3.66	3.74	3.84	3.94	
-6.7	Watts (Capacity)	1420	1360	1280	1200	1120	1040	950	865
	Watts (Power)	513	543	574	605	636	668	701	734
	Amps	3.48	3.55	3.62	3.70	3.80	3.91	4.03	4.16
-5	Watts (Capacity)	1540	1460	1380	1300	1210	1120	1030	934
	Watts (Power)	515	547	580	612	646	679	714	749
	Amps	3.49	3.55	3.63	3.73	3.83	3.94	4.07	4.20
0	Watts (Capacity)	1900	1810	1720	1610	1500	1390	1280	1160
	Watts (Power)	519	556	593	631	670	710	750	792
	Amps	3.48	3.57	3.67	3.78	3.90	4.04	4.18	4.34
5	Watts (Capacity)	2330	2220	2110	1980	1850	1720	1580	1440
	Watts (Power)	519	560	602	646	690	736	782	830
	Amps	3.47	3.58	3.70	3.83	3.97	4.12	4.28	4.46
7.2	Watts (Capacity)	2540	2430	2300	2170	2030	1880	1730	1580
	Watts (Power)	517	560	605	651	697	746	795	846
	Amps	3.46	3.58	3.71	3.84	3.99	4.15	4.33	4.51
10	Watts (Capacity)	2830	2700	2560	2420	2260	2100	1940	1770
	Watts (Power)	513	559	607	655	705	757	810	864
	Amps	3.45	3.58	3.71	3.86	4.02	4.19	4.38	4.57
15	Watts (Capacity)	3410	3260	3090	2920	2740	2550	2350	2150
	Watts (Power)	502	553	606	660	716	773	833	894

	Amps	3.42	3.56	3.72	3.89	4.07	4.26	4.46	4.67
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.214476E+03	3.110512E+02	3.191154E+00	
C2	9.590495E+01	-4.034482E+00	-2.431184E-02	
C3	-2.322421E+00	6.699442E+00	3.075747E-03	
C4	1.605887E+00	-1.018225E-01	-2.135120E-04	
C5	-4.149496E-01	1.109499E-01	7.671028E-04	
C6	-3.191468E-01	5.939885E-03	2.235999E-04	
C7	8.751500E-03	-2.694548E-04	0.000000E+00	
C8	-1.074090E-02	2.300317E-04	0.000000E+00	
C9	-4.397318E-03	1.175922E-03	0.000000E+00	
C10	1.633832E-03	7.404074E-05	0.000000E+00	

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

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

RKA5480YUZ

General

Model	RKA5480YUZ	Unit of Measure	Celsius
Condition	EN12900	Voltage/Frequency	230V~60HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	PSC

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	691	641						
	Watts (Power)	500	517						
	Amps	2.35	2.38						
-23.3	Watts (Capacity)	764	712	660					
	Watts (Power)	509	527	547					
	Amps	2.39	2.43	2.48					
-20	Watts (Capacity)	920	863	805	747	693			
	Watts (Power)	527	548	569	592	617			
	Amps	2.46	2.52	2.58	2.66	2.74			
-15	Watts (Capacity)	1190	1130	1060	985	914	847		
	Watts (Power)	551	576	601	628	657	688		
	Amps	2.55	2.63	2.73	2.83	2.94	3.05		
-10	Watts (Capacity)	1510	1440	1350	1260	1170	1090	1000	
	Watts (Power)	571	601	631	662	695	730	768	
	Amps	2.62	2.73	2.85	2.97	3.11	3.25	3.40	
-6.7	Watts (Capacity)	1760	1670	1580	1480	1370	1270	1170	1070
	Watts (Power)	582	615	649	683	719	757	798	842
	Amps	2.65	2.78	2.92	3.06	3.21	3.37	3.54	3.71
-5	Watts (Capacity)	1890	1800	1700	1590	1480	1370	1260	1160
	Watts (Power)	586	622	657	693	731	770	813	858
	Amps	2.67	2.81	2.95	3.10	3.26	3.43	3.61	3.79
0	Watts (Capacity)	2340	2230	2110	1980	1840	1710	1570	1430
	Watts (Power)	597	638	679	720	763	808	855	906
	Amps	2.70	2.87	3.04	3.21	3.40	3.59	3.79	4.00
5	Watts (Capacity)	2860	2730	2590	2430	2270	2100	1930	1760
	Watts (Power)	600	648	695	743	792	843	895	951
	Amps	2.72	2.90	3.10	3.30	3.52	3.73	3.96	4.19
7.2	Watts (Capacity)	3110	2970	2820	2650	2480	2300	2110	1920
	Watts (Power)	600	651	701	752	803	857	912	970
	Amps	2.72	2.92	3.12	3.34	3.56	3.79	4.03	4.27
10	Watts (Capacity)	3460	3310	3140	2950	2760	2560	2360	2150
	Watts (Power)	598	652	706	761	816	873	932	994
	Amps	2.71	2.93	3.15	3.38	3.61	3.86	4.11	4.37
15	Watts (Capacity)	4150	3970	3770	3560	3330	3100	2860	2610
	Watts (Power)	587	649	711	772	835	899	964	1030

	Amps	2.69	2.93	3.18	3.43	3.69	3.96	4.24	4.52
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.611892E+03	3.164159E+02	1.882556E+00	
C2	1.093790E+02	-6.762378E+00	-2.593906E-02	
C3	5.764075E+00	1.115994E+01	2.279424E-02	
C4	1.804004E+00	-1.901771E-01	-3.793750E-04	
C5	-1.634890E-01	2.946411E-01	1.023110E-03	
C6	-6.031258E-01	-8.516407E-02	1.508016E-04	
C7	1.025352E-02	-9.854526E-04	0.000000E+00	
C8	-1.119554E-02	2.243165E-03	0.000000E+00	
C9	-9.134462E-03	-7.251609E-04	0.000000E+00	
C10	3.615792E-03	8.147701E-04	0.000000E+00	

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

Te = Evaporator Temperature

Tc = Condensing Temperature