

Model: RGA5480EXA

Product Description

Type:	Rotary Compressors
Application:	HBP/AC - Air Conditioning
ProductDescription:	R-22
Voltage/Frequency:	115V ~ 60Hz 100V ~ 50Hz
Version:	N/A



Product Specifications

Performance

Condition	Test Voltage	Refrigeration Capacity			Input Power (I) W	(E) Efficiency			EVAP TEMP	Condition	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		(R) Btu/h	(R) kcal/h	(R) W		(E) Btu/Wh	(E) kcal/Wh	W/W					
EN12900 (R-22)	100V ~ 50HZ	5945	1498	1742	582	10.21	2.57	2.99	5°C (41°F)	50°C (122°F)	32°C (90°F)	15°C (59°F)	50°C (122°F)
EN12900 (R-22)	115V ~ 60HZ	7416	1869	2173	717	10.34	2.61	3.03	5°C (41°F)	50°C (122°F)	32°C (90°F)	15°C (59°F)	50°C (122°F)
ASHRAE (R-22)	115V ~ 60HZ	8100	2041	2373	750	10.8	2.72	3.16	7.2°C (45°F)	54°C (130°F)	35°C (95°F)	35°C (95°F)	46°C (115°F)

General

Evaporating Temp. Range:	-23.3°C to 12.8°C (-10°F to 55°F)
Motor Torque:	Low Start Torque (LST)
Compressor Cooling:	Fan

Mechanical

Weight:	27
Weight Unit of Measure:	LB
Displacement (cc):	11.504
Oil Type:	Synthetic Alkylate
Viscosity (cSt):	53
Oil Charge (cc):	210

Electrical

Voltage Range (50 Hz):	90-110
Voltage Range (60 Hz):	103-127
Locked Rotor Amps (LRA):	45.6
Rated Load Amps (RLA 50 Hz):	7.2
Rated Load Amps (RLA 60 Hz):	7

Max. Continuous Current (MCC in Amps):	10.5
Motor Resistance (Ohm) - Main:	.71
Motor Resistance (Ohm) - Start:	3.48
MotorType:	PSC
Overload Type:	
Relay Type:	

Agency Approval

cURus Recognized



Performance Data Sheet

RGA5480EXA

General

Model	RGA5480EXA	Unit of Measure	Fahrenheit
Condition	ASHRAE	Voltage/Frequency	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	150
-15	Btu/h	2700							
	Watts	395							
	Amps	3.86							
	Lb/h	34.9							
-10	Btu/h	3100	2890						
	Watts	405	436						
	Amps	3.95	4.16						
	Lb/h	39.8	38.5						
-5	Btu/h	3530	3290	3140					
	Watts	414	447	484					
	Amps	4.04	4.25	4.55					
	Lb/h	45.1	43.6	43.3					
0	Btu/h	4000	3730	3560	3430				
	Watts	420	456	496	538				
	Amps	4.12	4.33	4.64	5.00				
	Lb/h	50.8	49.1	48.7	48.9				
5	Btu/h	4520	4210	4010	3850	3690			
	Watts	425	462	505	551	598			
	Amps	4.20	4.40	4.72	5.11	5.50			
	Lb/h	56.9	55.0	54.5	54.6	54.6			
10	Btu/h	5090	4740	4500	4320	4130	3890		
	Watts	429	468	513	562	613	663		
	Amps	4.27	4.47	4.80	5.20	5.63	6.03		
	Lb/h	63.7	61.5	60.8	60.8	60.7	59.8		
15	Btu/h	5730	5320	5030	4820	4610	4350	3980	
	Watts	431	471	519	572	627	681	733	
	Amps	4.33	4.53	4.87	5.29	5.75	6.19	6.57	
	Lb/h	71.1	68.5	67.5	67.4	67.3	66.5	64.0	
20	Btu/h	6420	5950	5620	5370	5130	4850	4470	3930
	Watts	433	474	524	579	638	697	754	807
	Amps	4.38	4.58	4.92	5.37	5.85	6.34	6.77	7.11
	Lb/h	79.1	76.1	74.9	74.5	74.4	73.5	71.2	66.6
25	Btu/h	7190	6650	6270	5960	5690	5380	4980	4430
	Watts	433	476	527	586	648	712	774	833
	Amps	4.42	4.62	4.97	5.43	5.95	6.48	6.96	7.36

	Lb/h	88.0	84.5	82.8	82.3	82.0	81.1	78.9	74.4
30	Btu/h	8030	7420	6970	6620	6300	5960	5530	4960
	Watts	433	477	530	591	657	725	792	857
	Amps	4.45	4.64	5.01	5.49	6.03	6.60	7.14	7.60
	Lb/h	97.6	93.6	91.6	90.7	90.2	89.2	87.0	82.7
35	Btu/h	8950	8270	7750	7330	6970	6580	6130	5540
	Watts	433	477	532	595	664	736	809	879
	Amps	4.47	4.66	5.03	5.53	6.11	6.72	7.30	7.83
	Lb/h	108	104	101	99.8	99.1	98.0	95.7	91.5
40	Btu/h	9960	9200	8600	8120	7690	7260	6770	6150
	Watts	432	477	533	598	670	746	824	900
	Amps	4.47	4.66	5.04	5.56	6.17	6.81	7.46	8.04
	Lb/h	120	114	111	110	109	107	105	101
45	Btu/h	11100	10200	9530	8980	8490	8010	7470	6810
	Watts	432	476	533	600	675	755	837	919
	Amps	4.47	4.65	5.04	5.57	6.21	6.90	7.59	8.24
	Lb/h	132	126	123	121	119	118	115	111
50	Btu/h	12300	11300	10600	9920	9360	8810	8220	7530
	Watts	432	476	534	603	680	763	850	937
	Amps	4.45	4.63	5.02	5.57	6.24	6.97	7.71	8.42
	Lb/h	146	139	135	132	131	129	126	122
55	Btu/h	13600	12500	11700	10900	10300	9700	9050	8300
	Watts	432	476	534	604	684	771	861	953
	Amps	4.41	4.59	4.99	5.56	6.25	7.02	7.82	8.59
	Lb/h	161	153	148	145	143	141	138	133

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.685058E+04	6.274166E+02	1.201847E+01	2.089608E+02
C2	2.239736E+02	4.362761E+00	9.738797E-02	2.337978E+00
C3	-3.504135E+02	-1.116385E+01	-2.641916E-01	-4.558349E+00
C4	1.977150E+00	2.497442E-03	-1.043031E-04	1.862515E-02
C5	-2.308710E+00	-1.108679E-01	-1.891021E-03	-2.318911E-02
C6	3.163940E+00	1.421062E-01	2.725476E-03	4.306201E-02
C7	7.773311E-03	2.686935E-04	-1.118745E-06	9.106353E-05
C8	-1.296453E-02	-4.302217E-04	-3.665187E-07	-1.100277E-04
C9	9.326921E-03	8.838086E-04	1.091490E-05	1.098060E-04
C10	-9.889643E-03	-4.364500E-04	-8.213577E-06	-1.350127E-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

RG A5480EXA

General

Model	RG A5480EXA	Unit of Measure	Celsius
Condition	EN12900	Voltage/Frequency	100V~ 50HZ
RETURN GAS	10K (18°F) SUPERHEAT	Motor Type	PSC

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	630	590						
	Watts (Power)	344	364						
	Amps	4.86	4.98						
-23.3	Watts (Capacity)	683	642	598					
	Watts (Power)	352	374	393					
	Amps	4.91	5.05	5.22					
-20	Watts (Capacity)	798	753	704	653	600			
	Watts (Power)	365	391	415	436	453			
	Amps	5.01	5.18	5.37	5.58	5.82			
-15	Watts (Capacity)	997	945	888	827	764	700		
	Watts (Power)	379	410	441	471	497	520		
	Amps	5.12	5.33	5.56	5.82	6.10	6.40		
-10	Watts (Capacity)	1230	1170	1100	1030	956	878	798	
	Watts (Power)	387	422	459	496	531	563	592	
	Amps	5.19	5.45	5.72	6.02	6.34	6.68	7.05	
-6.7	Watts (Capacity)	1410	1340	1270	1190	1100	1010	922	830
	Watts (Power)	389	427	467	508	548	586	622	655
	Amps	5.22	5.50	5.80	6.13	6.48	6.85	7.24	7.66
-5	Watts (Capacity)	1510	1430	1360	1270	1180	1090	990	892
	Watts (Power)	390	429	470	513	555	597	636	672
	Amps	5.23	5.52	5.84	6.18	6.54	6.93	7.33	7.76
0	Watts (Capacity)	1830	1740	1650	1550	1440	1330	1210	1100
	Watts (Power)	391	432	476	523	572	621	669	716
	Amps	5.22	5.56	5.92	6.30	6.70	7.13	7.58	8.05
5	Watts (Capacity)	2190	2090	1980	1870	1740	1610	1480	1340
	Watts (Power)	390	431	478	529	582	638	694	750
	Amps	5.17	5.55	5.96	6.38	6.83	7.30	7.79	8.31
7.2	Watts (Capacity)	2370	2260	2150	2020	1890	1750	1600	1450
	Watts (Power)	390	431	478	530	585	643	702	762
	Amps	5.14	5.54	5.96	6.40	6.87	7.36	7.87	8.40
10	Watts (Capacity)	2610	2500	2370	2230	2090	1940	1780	1610
	Watts (Power)	389	430	477	530	588	648	711	775
	Amps	5.09	5.51	5.96	6.42	6.91	7.43	7.96	8.52
15	Watts (Capacity)	3090	2950	2810	2650	2480	2310	2120	1940
	Watts (Power)	389	428	475	529	589	654	722	793

	Amps	4.97	5.43	5.92	6.43	6.96	7.51	8.09	8.69
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.102080E+03	2.843810E+02	3.665640E+00	
C2	8.046910E+01	4.512960E+00	-5.588470E-02	
C3	-1.033990E+00	-1.911730E+00	3.830770E-02	
C4	1.204970E+00	1.135000E-01	-7.815920E-04	
C5	-2.635180E-01	-3.256970E-01	1.692670E-03	
C6	-3.164450E-01	2.254000E-01	4.493250E-04	
C7	5.687690E-03	1.866090E-03	0.000000E+00	
C8	-7.881640E-03	-4.815880E-03	0.000000E+00	
C9	-4.522140E-03	5.771160E-03	0.000000E+00	
C10	1.452610E-03	-1.443720E-03	0.000000E+00	

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

RG A5480EXA

General

Model	RG A5480EXA	Unit of Measure	Celsius
Condition	EN12900	Voltage/Frequency	115V~ 60HZ
RETURN GAS	10K (18°F) SUPERHEAT	Motor Type	PSC

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	773	723						
	Watts (Power)	425	444						
	Amps	4.05	4.22						
-23.3	Watts (Capacity)	842	791	736					
	Watts (Power)	436	459	475					
	Amps	4.13	4.31	4.51					
-20	Watts (Capacity)	989	934	875	812	743			
	Watts (Power)	454	484	507	524	532			
	Amps	4.25	4.47	4.71	4.96	5.22			
-15	Watts (Capacity)	1240	1180	1110	1040	965	883		
	Watts (Power)	472	510	544	574	597	613		
	Amps	4.40	4.67	4.96	5.26	5.57	5.91		
-10	Watts (Capacity)	1530	1460	1380	1300	1220	1120	1030	
	Watts (Power)	482	526	569	609	645	676	700	
	Amps	4.49	4.82	5.16	5.51	5.88	6.26	6.66	
-6.7	Watts (Capacity)	1750	1670	1580	1490	1400	1300	1190	1080
	Watts (Power)	485	532	580	625	669	708	743	771
	Amps	4.53	4.89	5.26	5.65	6.05	6.47	6.90	7.35
-5	Watts (Capacity)	1870	1780	1690	1600	1500	1390	1280	1160
	Watts (Power)	486	534	584	632	679	723	762	796
	Amps	4.54	4.92	5.31	5.71	6.13	6.57	7.02	7.48
0	Watts (Capacity)	2260	2150	2040	1930	1810	1690	1560	1430
	Watts (Power)	487	538	591	647	702	756	809	857
	Amps	4.54	4.97	5.41	5.87	6.34	6.82	7.33	7.84
5	Watts (Capacity)	2690	2570	2440	2310	2170	2030	1880	1730
	Watts (Power)	488	539	595	655	717	780	843	905
	Amps	4.49	4.97	5.46	5.97	6.49	7.03	7.58	8.15
7.2	Watts (Capacity)	2900	2770	2630	2490	2340	2190	2030	1870
	Watts (Power)	490	540	596	657	721	788	855	921
	Amps	4.45	4.95	5.47	6.00	6.55	7.11	7.68	8.27
10	Watts (Capacity)	3190	3040	2890	2740	2570	2410	2240	2060
	Watts (Power)	493	542	598	660	726	796	868	940
	Amps	4.39	4.92	5.47	6.03	6.60	7.19	7.79	8.41
15	Watts (Capacity)	3740	3570	3390	3210	3020	2830	2640	2430
	Watts (Power)	503	548	602	664	733	807	886	967

	Amps	4.25	4.83	5.42	6.03	6.66	7.30	7.96	8.63
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.791210E+03	3.098150E+02	2.297650E+00	
C2	1.045030E+02	7.789060E+00	-6.669340E-02	
C3	-1.573110E+01	5.147750E-01	6.577600E-02	
C4	1.425150E+00	2.536270E-01	-9.787870E-04	
C5	-7.472120E-01	-5.106790E-01	2.056620E-03	
C6	-6.219340E-02	2.294510E-01	3.002370E-04	
C7	5.416160E-03	3.827230E-03	0.000000E+00	
C8	-1.250210E-02	-8.350780E-03	0.000000E+00	
C9	1.220070E-04	8.565230E-03	0.000000E+00	
C10	-2.736960E-04	-1.657930E-03	0.000000E+00	

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