

RGA5480EXA

General

Model	RGA5480EXA	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-22)	Voltage/Frequency	115V ~ 60HZ
RETURN GAS	18.3°C (65°F) RETURN GAS	MotorType	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

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

Te = Evaporator Temperature

Tc = Condensing Temperature

RGA5480EXA
General

Performance Data Sheet

Model	RGA5480EXA	Unit of Measure	Celsius
Condition	EN12900(R-22)	Voltage/Frequency	100V ~ 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) 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									

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

RGA5480EXA
General

Performance Data Sheet

ModelRGA5480EXAUnit of MeasureCelsius

ConditionEN12900(R-22)Voltage/Frequency115V~60HZ

RETURN GAS 10K (18°F) SUPERHEATMotorTypePSC

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									

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