

RGD SPECIFICATIONS

MODEL	RATED FLOW (SCFM)	AVAILABLE VOLTAGES	INLET/OUTLET CONNECTIONS (IN)	POWER (KW)	REFRIGERANT	DIMENSIONS (IN)			WEIGHT (LBS)	
						H	W	D		
RGD25A1	25	115/1/60	¾" NPT	0.41	R134a	22.00	16.00	15.00	88	
RGD35A1	35			0.46		22.00	16.00	15.00	92	
RGD50A1	50			0.57		22.00	20.00	20.00	101	
RGD75A1	75			0.52		23.67	14.28	32.33	123	
RGD100A1	100			0.65		23.67	14.28	32.33	129	
RGD125A1	125	115/1/60	1" NPT	0.68	R134a	23.67	14.28	32.33	135	
RGD150A1	150			1.11		R134a	21.00	13.00	30.00	161
RGD150A2	150	230/1/60		0.91	R-407c	23.67	14.28	34.69	152	
RGD200A2	200	230/1/60 460/3/60	2" NPT	1.53	R-407c	29.97	17.43	36.66	196	
RGD200A4	200		1½" NPT	1.42	R134a	30.00	17.00	36.00	183	
RGD250A2	250		2" NPT	1.87	R-407c	29.97	17.43	36.66	181	
RGD250A4	250		1½" NPT	1.98	R134a	30.00	17.00	36.00	211	
RGD300A2	300		2" NPT	2.09	R-407c	31.94	19.39	43.75	252	
RGD300A4	300		1½" NPT	2.05	R134a	30.00	20.00	38.00	219	
RGD400A2	400		2" NPT		2.83	R-407c	31.94	19.39	43.75	270
RGD400A4	400				2.50	R134a	30.00	21.00	38.00	232
RGD500A4	500				3.18	R407c	31.94	21.36	47.69	328

Maximum Inlet Air Temperature: 120°F (49°C) Maximum Operating Pressure: 250 psig (Models RGD25-50), 232 psig (Models RGD75-500).
Above conditions tested at 100°F inlet air temperature, 100% saturated inlet air, 100 psig operating pressure and 100°F ambient air temperature.

OPERATING CONDITIONS

MODEL	MAX INLET AIR PRESSURE		MIN INLET AIR PRESSURE		MAX INLET AIR TEMPERATURE		MIN INLET AIR TEMPERATURE		MAX AMBIENT AIR TEMPERATURE		MIN AMBIENT AIR TEMPERATURE	
	PSIG	BARG	PSIG	BARG	°F	°C	°F	°C	°F	°C	°F	°C
25-50	250	17	30	2	120	49	40	4	110	43	45	7
75-500	232	16	10	1	120	49	40	4	110	43	45	7

CAPACITY CORRECTION FACTORS

To adjust the dryer capacity for non-standard conditions, use the Capacity Correction Factors (multipliers) from the tables below.
Sizing Example: What is the capacity of an RGD100 at 100°F inlet air temperature, 150 psig working pressure and 110°F ambient air temperature?

Answer: 100 scfm (rated flow from RGD specifications table) x 1.08 (correction factor for inlet air temperature, table 1) x 0.94 (correction factor for ambient air temperature, table 2) = 102 scfm

INLET AIR PRESSURE		INLET AIR TEMPERATURE			
PSIG	BARG	90°F/32°C	100°F/38°C	110°F/43°C	120°F/49°C
80	5.6	1.19	0.95	0.77	0.63
100	6.9	1.25	1	0.82	0.68
125	8.6	1.3	1.05	0.86	0.72
150	10.3	1.34	1.08	0.9	0.75
175	12.1	1.37	1.11	0.92	0.78
200	13.8	1.39	1.14	0.95	0.8
250	17.2	1.43	1.17	0.98	0.83

AMBIENT AIR TEMPERATURE	80°F/27°C	90°F/32°C	100°F/38°C	110°F/43°C
Multiplier	1.12	1.06	1	0.94