

GA Series

High Flow Nitrogen Generators



TEXOL
Products

Gas Generators

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GA Series

The GA series of nitrogen generators covers flow rates from 2Nm³/hr up to 900 Nm³/hr. Ideal for applications that demand a high consumption of nitrogen.

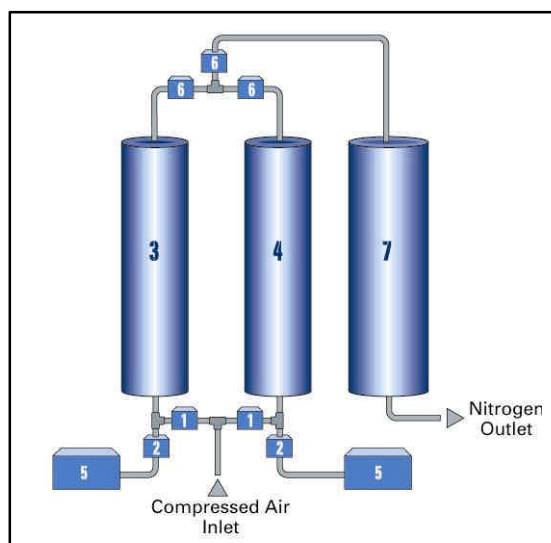


Overview

The Texol GA series of high-flow industrial nitrogen generators have been designed for processes that require a large continual demand of nitrogen gas at a consistent grade of purity. The GA models can be used with an existing compressed air supply or can be offered with a full compressor and air preparation package. When used as a direct replacement for cylinder or liquid nitrogen supplies, a GA nitrogen generator can typically provide payback in 12-18 months. Our engineers can advise on process requirements and generator selection and can offer full installation, commissioning and maintenance services.

Process Description

Prior to entering the generator, compressed air is pre-conditioned by a series of filters and dryers. The clean, oil-free air is then passes through a set of process control valves (1) and enters the PSA columns (3,4), which adsorb the oxygen at elevated pressure. The high purity nitrogen gas flows through the columns, past a further set of control valves (6) before being collected in the N₂ reserve tank (7). The trapped oxygen is expelled from the columns through exhaust valves (2) and silencers (5). The cycle then repeats. An integral controller monitors gas demand and only produces gas when required.



Features and Benefits

- Purities up to 99.995% available
- Flows up to 900 Nm³/hr
- Energy Saving Stand-by Mode
- PSA technology
- Full Engineering Support
- Low power requirement
- Simple maintenance

Typical Applications

- Laboratory Gas Distribution Plant
- Laser Cutting
- Food Packaging
- Tyre Inflation
- Injection Moulding
- Welding
- Chemical Blanketing

Technical Specifications

System	Flow versus Purity								Dimensions (approx)			
	Purity Flow	99.99%	99.90%	99.50%	99%	98%	97%	95%	L(mm)	W(mm)	H(mm)	Wt(kg)
GA 5	N2 Nm3/hr	1.36	2.86	4.54	5.67	7.26	8.39	10.21	1000	800	1400	250
	Air Nm3/hr	8.64	11.4	13.61	15.31	17.42	18.46	20.41				
GA 10	N2 Nm3/hr	3.17	6.66	10.57	13.21	16.91	19.55	23.78	1000	1000	1400	300
	Air Nm3/hr	20.13	26.57	31.71	35.67	40.58	43.01	47.56				
GA 20	N2 Nm3/hr	5.15	10.82	17.18	21.47	27.48	31.77	38.64	1000	1000	2000	350
	Air Nm3/hr	32.72	43.17	51.53	57.96	65.95	69.90	77.28				
GA 30	N2 Nm3/hr	7.46	15.67	24.87	31.09	39.80	46.01	55.96	1200	1200	1600	450
	Air Nm3/hr	47.38	65.52	74.62	83.94	95.51	101.23	111.93				
GA 40	N2 Nm3/hr	10.24	21.51	34.14	42.67	54.63	63.15	76.81	1200	1200	2000	550
	Air Nm3/hr	65.03	85.82	102.43	115.22	131.09	138.94	153.63				
GA 50	N2 Nm3/hr	12.20	25.61	40.65	50.80	65.04	75.19	91.45	1400	1400	1600	880
	Air Nm3/hr	77.43	102.17	121.95	137.17	156.07	165.42	182.91				
GA 60	N2 Nm3/hr	14.41	30.26	48.04	60.04	76.86	88.86	108.08	1400	1400	1800	930
	Air Nm3/hr	91.51	120.75	144.12	162.11	184.45	195.50	216.60				
GA 70	N2 Nm3/hr	16.97	35.64	56.58	70.71	90.53	104.66	127.90	1400	1400	2000	980
	Air Nm3/hr	107.77	142.21	169.74	190.93	217.24	230.25	254.29				
GA 80	N2 Nm3/hr	19.96	41.90	66.51	83.15	106.43	123.04	149.65	1400	1400	2300	1050
	Air Nm3/hr	126.70	167.19	199.55	224.46	255.39	270.69	299.30				
GA 90	N2 Nm3/hr	22.17	46.56	73.90	92.37	118.25	136.71	166.27	1400	1400	2500	1100
	Air Nm3/hr	140.78	185.76	221.72	249.40	283.77	300.77	332.56				
GA 100	N2 Nm3/hr	24.19	50.80	80.64	100.79	129.03	149.17	181.43	1600	1600	2100	1200
	Air Nm3/hr	153.61	202.70	241.93	272.14	309.64	328.19	362.87				
GA 120	N2 Nm3/hr	29.03	60.96	96.77	120.95	154.84	179.01	217.72	1600	1600	2400	1300
	Air Nm3/hr	184.33	243.24	290.32	326.57	371.56	393.82	435.45				

Continued ...

Technical Specifications

System	Flow versus Purity								Dimensions (approx)			
	Purity Flow	99.99%	99.90%	99.50%	99%	98%	97%	95%	L(mm)	W(mm)	H(mm)	Wt(kg)
GA 150	N2 Nm3/hr	36.23	76.07	120.75	150.92	193.21	223.37	271.67	1600	1600	2500	2500
	Air Nm3/hr	230.01	303.51	362.26	407.49	463.64	491.64	543.35				
GA 200	N2 Nm3/hr	48.26	101.34	160.86	201.05	257.39	297.57	361.92	1600	2000	2800	3500
	Air Nm3/hr	306.42	404.34	482.60	542.86	617.66	654.66	732.86				
GA 250	N2 Nm3/hr	63.33	126.67	201.08	251.32	321.74	371.96	452.40	1600	2000	2800	4000
	Air Nm3/hr	383.03	505.43	603.26	678.58	772.07	818.33	904.82				
GA 300	N2 Nm3/hr	75.41	158.34	251.35	314.14	402.17	464.95	565.49	2500	2000	2500	5000
	Air Nm3/hr	478.79	631.78	754.07	848.22	965.09	1022.91	1131.02				
GA 400	N2 Nm3/hr	96.62	202.88	322.04	402.50	515.29	595.72	724.54	2500	2000	2800	5500
	Air Nm3/hr	613.45	809.47	966.15	1086.79	1236.52	1310.60	1449.12				
GA 500	N2 Nm3/hr	122.17	256.52	407.19	508.91	651.52	753.22	916.10	2800	2400	2800	6000
	Air Nm3/hr	775.63	1023.50	1221.60	1374.20	1563.50	1657.20	1832.30				

Minimum Air Pressure required 7.5 Bar

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