

MAXIGAS

Nitrogen Gas Generators

The cost-effective, reliable and safe solution for medium to large nitrogen requirements.

MAXIGAS nitrogen gas generators from Parker domnick hunter produce nitrogen gas from compressed air and offer a cost-effective, reliable and safe alternative to traditional nitrogen gas supplies such as cylinder or liquid.

Nitrogen is used as a clean, dry, inert gas primarily for removing oxygen from products and/or processes.

MAXIGAS provides an on-demand, continuous source of nitrogen gas which can be used in a wide range of industries such as food, beverage, pharmaceutical, laboratory, chemical, heat treatment, electronics, transportation, oil and gas and laser cutting.



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Features:

- **Can operate from a standard factory compressed air supply**
- **Delivers 5% down to 10ppm oxygen content, without the need for any additional purification**
- **Available in 7 models offering varying flow rates and purities**
- **Automatic economy mode**
- **Built-in oxygen analyser for continuous purity monitoring**
- **Digital and analogue outputs for remote monitoring**
- **Alarm capabilities**
- **User friendly control interface**
- **Compact design**
- **Modular concept**

Benefits:

- **Up to 90% cost savings***
Typical capital pay-back is achievable within 12-24 months
- **Energy savings**
Low air consumption provides greater energy efficiency
- **Convenient and safe**
The easy to use system is simple to install, requires minimal maintenance and eliminates safety hazards associated with traditional gas supplies
- **Space saving design**
The compact design means the system demands less floor space
- **Flexible multi-bank option**
The modular concept means the generators can be multi-banked if required
- **Reduced carbon footprint**
The elimination of cylinder deliveries and transportation means carbon footprint can be reduced

* Typical cost savings achieved in comparison to cylinder or liquid supply

Product Selection

Performance data is based on 7 bar g (100 psi g) air inlet pressure and 20° - 25°C (66° - 77°F) ambient temperature. Consult Parker for performance under other specific conditions.

Nitrogen flow rate m ³ /hr vs Purity (Oxygen Content)													
Model	Unit	10ppm	50ppm	100ppm	250ppm	500ppm	0.1%	0.5%	1.0%	2.0%	3.0%	4.0%	5.0%
MAXIGAS104	m ³ /hr	2	3.8	5.5	7.1	8.6	9	14.1	17.8	22	25.8	29	32.2
	cfm	1.2	2.2	3.2	4.2	5	5.3	8.3	10.5	12.9	15.2	17.1	19.0
MAXIGAS106	m ³ /hr	3	5.7	8.3	10.7	13	13.4	21.2	26.6	32.8	38.7	43.5	48.3
	cfm	1.8	3.3	4.9	6.3	7.6	7.9	12.5	15.7	19.3	22.8	25.6	28.4
MAXIGAS108	m ³ /hr	4	7.6	11	14.3	17.3	18	28.3	35.5	43.8	51.6	58	64.4
	cfm	2.3	4.5	6.4	8.4	10.2	10.6	16.7	20.9	25.8	30.4	34.1	37.9
MAXIGAS110	m ³ /hr	5	9.5	13.8	17.8	21.6	22.4	35.3	44.4	54.7	64.5	72.5	80.4
	cfm	2.9	5.6	8.1	10.5	12.7	13.2	20.8	26.1	32.2	38.0	42.7	47.3
MAXIGAS112	m ³ /hr	6	11.3	16.5	21.4	25.9	26.8	42.4	53.3	65.7	77.4	87.1	96.5
	cfm	3.5	6.7	9.7	12.6	15.2	15.8	25	31.4	38.7	45.6	51.3	56.8
MAXIGAS116	m ³ /hr	7.9	14.4	20.9	27.1	32.8	34	53.7	67.5	83.2	98.1	110.3	122.3
	cfm	4.6	8.5	12.3	15.9	19.3	20.0	31.6	39.7	49	57.7	64.9	72.0
MAXIGAS120	m ³ /hr	9.8	17.4	25.3	32.8	39.7	41.2	65	81.7	100.7	118.7	133.5	148
	cfm	5.8	10.2	14.9	19.3	23.4	24.2	38.3	48.1	59.3	69.9	78.6	87.1
Outlet Pressure	bar g	5.5	6.1	6.1	6.1	6.1	6.1	6.0	5.9	5.8	5.7	5.7	5.6
	psi g	80	88	88	88	88	88	87	86	84	83	83	81

m³ reference standard = 20°C, 1013 millibar(a), 0% relative water vapour pressure.

Inlet Parameters

Inlet Air Quality	ISO 8573-1:2010 Class 2.2.2 (2.2.1 with high oil vapour content)
Inlet Air Pressure Range	6 - 15 bar g 87 - 217 psi g

Electrical Parameters

Supply Voltage	100 - 240 ±10% V ac 50/60Hz
Power	80 W
Fuse	3.15A (Anti Surge (T), 250v, 5 x 20mm HBC, Breaking Capacity 1500A @ 250v, UL Listed)

Environmental Parameters

Ambient Temperature	5 - 50 °C 41 - 122 °F
Humidity	50% @ 40°C (80% MAX ≤ 31°C)
IP Rating	IP20 / NEMA 1
Altitude	<2000m (6562 ft)
Noise	< 80 dB (A)

Port Connections

Air Inlet	G1"
N ₂ Outlet to Buffer	G1"
N ₂ Inlet from Buffer	G1/2"
N ₂ Outlet	G1/2"

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
MAXIGAS104	1894	76	550	22	692	28	336	741
MAXIGAS106	1894	76	550	22	861	34	394	869
MAXIGAS108	1894	76	550	22	1029	41	488	1076
MAXIGAS110	1894	76	550	22	1198	48	582	1283
MAXIGAS112	1894	76	550	22	1368	55	676	1490
MAXIGAS116	1894	76	550	22	1765	71	864	1905
MAXIGAS120	1894	76	550	22	2043	82	1052	2319

Packed Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
MAXIGAS104	800	31	2020	80	1000	39	464	1023
MAXIGAS106	800	31	2020	80	1000	39	521	1149
MAXIGAS108	800	31	2020	80	1200	47	614	1354
MAXIGAS110	800	31	2020	80	1250	49	744	1640
MAXIGAS112	800	31	2020	80	1510	60	790	1742
MAXIGAS116	800	31	2020	80	1820	72	980	2160
MAXIGAS120	800	31	2020	80	2270	90	1360	3015

Also available, MIDIGAS PSA technology in addition, NitroSource, Nitroflow Basic, LP and HP membrane technology. To ensure the best solution is selected, please contact Parker.

For information on extended warranty and preventative maintenance contract availability, please contact your local sales office or visit www.domnickhunter.com