

MIDIGAS

Nitrogen Gas Generators

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

MIDIGAS 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.

MIDIGAS 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 3 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	100ppm	250ppm	500ppm	0.1%	0.5%	1.0%	2.0%	3.0%	4.0%	5.0%
MIDIGAS2	m ³ /hr	0.55	1.2	1.5	1.9	2.4	3.4	4.3	5.8	7.2	8.4	9.4
	cfm	0.3	0.7	0.9	1.1	1.4	2.0	2.5	3.5	4.2	4.9	5.5
MIDIGAS4	m ³ /hr	1.2	2.4	3.2	3.9	4.7	6.9	8.5	11.6	14.3	16.7	18.8
	cfm	0.7	1.4	1.9	2.3	2.8	4.1	5.0	6.8	8.4	9.8	11.1
MIDIGAS6	m ³ /hr	1.5	3.2	4.2	5.3	6.5	9.5	11.5	15.2	18.7	21.7	24.5
	cfm	0.9	1.9	2.5	3.1	3.8	5.6	6.8	8.9	11.0	12.8	14.4
Outlet Pressure	bar g	5.6	5.4	5.9	5.7	5.6	5.7	6.0	6.0	5.8	5.7	5.6
	psi g	81	78	86	83	81	83	87	87	84	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 - 13 bar g 87 - 217 psi g

Electrical Parameters

Supply Voltage	115 / 230 ±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	G ¹ / ₂ "
N ₂ Outlet to Buffer	G ¹ / ₂ "
N ₂ Inlet from Buffer	G ¹ / ₂ "
N ₂ Outlet	G ¹ / ₂ "

Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
MIDIGAS2	1034	41	450	18	471	19	98	216
MIDIGAS4	1034	41	450	18	640	26	145	320
MIDIGAS6	1034	41	450	18	809	33	196	432

Packed Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
MIDIGAS2	612	24	1490	59	950	38	174	383
MIDIGAS4	612	24	1490	59	950	38	221	487
MIDIGAS6	612	24	1490	59	950	38	272	597

Also available, MAXIGAS 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

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