

# MIDIGAS LAB

for multiple LC/MS and centralised laboratory supply applications



The Parker domnick hunter MIDIGAS LAB nitrogen gas generators employ robust, field proven technology to produce high purity nitrogen for a number of medium flow, high demand analytical applications, such as multiple LC/MS installations. Flow rates range from 9 L/min to 408 L/min, with purities from >95% to >99.999%.

The MIDIGAS LAB generators provide a continuous stream of high purity nitrogen from a innovative modular unit. Models are available with or without an external compressed air system, and offer a compelling alternative to other modes of supply such as cylinders or liquid.

Innovative design and technology facilitate maximum instrument uptime, attractive return on investment and proven analytical performance.



## Contact Information:

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## Product Features:

- **Innovative modular system specifically for multiple LC/MS and centralised supply applications**
- **Produces a continuous stream of high purity analytical grade nitrogen 24 hours a day**
- **Integral automatic economy mode and continuous purity monitoring**
- **Digital and analogue outputs of remote monitoring and alarm capabilities**
- **Eliminate inconvenient and potentially dangerous nitrogen cylinders and dewars**
- **Robust, reliable with minimal operator attention and maintenance**

## 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 <sup>3</sup> /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 LAB	m <sup>3</sup> /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 LAB	m <sup>3</sup> /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 LAB	m <sup>3</sup> /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

m<sup>3</sup> reference standard = 20°C, 1013 millibar(a), 0% relative water vapour pressure.

## Technical Data

Ambient temperature range	5 - 50°C
Nitrogen outlet pressure	up to 11 bar g
Air inlet pressure	6 to 13 bar g
Air Inlet Quality	Pressure Dewpoint
	-40°C
	Particulate
	<0.1 micron
	Oil
	<0.01 mg/m <sup>3</sup>
Supply Voltage Range	103 - 126V 60Hz 207 - 253V 50/60Hz
Inlet/outlet connections	G <sup>1</sup> / <sub>2</sub>

## Weights and Dimensions

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