

# NitroFlow

## Nitrogen Gas Generators

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

NitroFlow nitrogen gas generators from Parker 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.

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



### Contact Information:

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### Features:

- Available as low pressure (LP) and high pressure (HP) versions
- NitroFlow LP requires only electrical power in order to produce nitrogen
- NitroFlow HP Can operate from a standard factory compressed air supply
- Delivers 5% down to 0.5% oxygen content, without the need for any additional purification
- Built-in oxygen analyser for continuous purity monitoring
- Alarm capabilities
- User friendly control interface
- Compact design
- Minimal maintenance
- Easy installation

### Benefits:

- **Up to 90% cost savings\***  
Typical capital pay-back is achievable within 12-24 months
- **Energy savings**  
NitroFlow HP does not require an inlet air heater and can operate from a standard factory compressed air supply
- **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
- **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



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## Product Selection

Performance data for HP models is based on 7 bar g (100 psi g) air inlet pressure and 20° - 30°C air inlet temperature. Consult Parker for performance under other specific conditions. NitroFlow LP has a in-built compressor requiring normal clean ambient air at 10°C - 35°C, < 90% relative humidity

Oxygen Content							
Model	Unit	0.5%	1.0%	2.0%	3.0%	4.0%	5.0%
Nitroflow LP1	m³/hr	1.1	1.5	2.2	2.7	3.1	3.5
	cfm	0.65	0.9	1.3	1.6	1.8	2.1
Nitroflow LP2	m³/hr	2.2	3.0	4.5	5.3	6.0	6.8
	cfm	1.3	1.6	2.6	3.1	3.5	4.0
Nitroflow LP3	m³/hr	3.4	5.3	6.6	7.8	9.0	10.2
	cfm	2.0	3.1	3.9	4.6	5.3	6.0
Nitroflow LP4	m³/hr	n/a	n/a	n/a	10.3	12.0	13.6
	cfm	n/a	n/a	n/a	6.1	7.0	8.0
Nitroflow HP1	m³/hr	1.7	2.5	3.8	5.0	6.3	7.5
	cfm	1.0	1.5	2.2	3.0	3.7	4.4
Nitroflow HP2	m³/hr	3.4	5.0	7.6	10.0	12.6	15.0
	cfm	2.0	3.0	4.5	6.0	7.4	9.0
Nitroflow HP3	m³/hr	5.1	7.5	11.4	15.0	18.9	22.5
	cfm	3.0	4.4	6.7	9.0	11.1	13.3

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

## Technical Data

	LP1	LP2	LP3	LP4	HP1	HP2	HP3
Temperature Range	10°C – 35°C Ambient				10°C - 40°C Compressed Air Inlet		
Nitrogen Outlet Pressure	2 bar g				Air inlet minus 2 bar g		
Air Inlet Pressure Range	N/A - built in compressor				5 - 13 bar g		
Air Inlet Quality	Pressure Dewpoint				< +5°C		
	Particulate				< 90% Relative Humidity		
	Oil				5 Micron		
Electrical Supply	230VAC/1ph/50Hz		400VAC/3ph+N+E/50Hz		100-115-230VAC/1ph/50Hz-60Hz		
Power Consumption	1.7kW	3.2kW	4.8kW	6.3kW	30W		
Inlet / Outlet Connections	Nitrogen and Permeate G1				Air Inlet, Nitrogen Outlet and Permeate G1		

## Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
Nitroflow LP1	1224	48.2	540	21.3	725	28.5	150	331
Nitroflow LP2	1224	48.2	540	21.3	725	28.5	200	441
Nitroflow LP3	1224	48.2	810	31.9	725	28.5	320	706
Nitroflow LP4	1224	48.2	810	31.9	725	28.5	370	816
Nitroflow HP1	1224	48.2	270	10.6	725	28.5	85	187
Nitroflow HP2	1224	48.2	270	10.6	725	28.5	95	209
Nitroflow HP3	1224	48.2	270	10.6	725	28.5	105	232

**Also available, NitroSource and NitroFlow Basic membrane technology in addition to MIDIGAS and MAXIGAS PSA 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.parker.com/pfs](http://www.parker.com/pfs)

