

# NitroFlow Basic

## Nitrogen Gas Generators

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

NitroFlow Basic 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.



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### Features:

- Only requires electrical power in order to produce nitrogen
- Low - 2 bar g and high - 8 bar g nitrogen pressure available
- Delivers 5% down to 0.1% oxygen content, without the need for any additional purification
- Built-in oxygen analyser for continuous purity monitoring
- Alarm capabilities
- User friendly control interface
- Minimal maintenance
- Mobile and wall-mounted versions
- Wall-mount gas mix Add-on for N<sub>2</sub> - CO<sub>2</sub> mixture
- Easy installation

### Benefits:

- **Up to 90% cost savings\***  
Typical capital pay-back is achievable within 12-24 months
- **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
- **Easy installation**  
NitroFlow Basic is a plug-and-play, stand alone unit.
- **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

NitroFlow Basic LP and HP have an in-built compressor requiring normal clean ambient air at 10°C – 35°C, < 90% relative humidity

Oxygen Content										
Model	Unit	Max. N <sub>2</sub> Pressure	0.1%	0.3%	0.5%	1.0%	2.0%	3.0%	4.0%	5.0%
Nitroflow Basic LP Mobile	L/min	2 bar g	10	15	18	24	31	35	40	43
	cfh		21.2	31.8	38.2	50.8	65.7	74.2	84.8	91.2
Nitroflow Basic HP Mobile	L/min	8 bar g	7.6	12	13	18	23	26	30	32
	cfh		16.1	25.4	27.6	38.2	48.8	55.1	63.6	67.8
Nitroflow Basic LP Wall Mount	L/min	2 bar g	10	15	18	24	31	35	40	43
	cfh		21.2	31.8	38.2	50.8	65.7	74.2	84.8	91.2
Nitroflow Basic HP Wall Mount	L/min	8 bar g	7.6	12	13	18	23	26	30	32
	cfh		16.1	25.4	27.6	38.2	48.8	55.1	63.6	67.8
Nitroflow Basic HP Wall Mount + Mixer add on	Mixed gas outlet 7 bar g		Please see table below							

Litre reference standard = 20°C, 1013 millibar(absolute), 0% relative water vapour pressure

CO <sub>2</sub>	10%	20%	30%	40%	50%	60%	70%
Conversion Factor	1.11	1.25	1.42	1.67	2.0	2.5	3.33

To calculate total mixed gas outlet flow rate when using NitroFlow Basic HP wall mount + Mixer add on, multiply the corresponding nitrogen outlet capacity of the standard NitroFlow Basic HP by the conversion factor in the table above.

## Technical Data

	Nitroflow Basic LP Mobile	Nitroflow Basic HP Mobile	Nitroflow Basic LP Wall Mount	Nitroflow Basic HP Wall Mount	Nitroflow Basic HP Wall Mount + Mixer add on
Ambient Temperature Range	10°C – 35°C				
Maximum Nitrogen Outlet Pressure	2 bar g	8 bar g	2 bar g	2 bar g	7 bar g mixed gas
Air Inlet Quality	Normal clean ambient air < 90% Relative Humidity				
Electrical Supply	Available as 120VAC/1ph/60Hz or 240VAC/1ph/50Hz				
Power Consumption	1.4kW				
Inlet / Outlet Connections	Nitrogen & Permeate Outlet – G <sup>1</sup> / <sub>4</sub> or 1/4 NPT				

## Weights and Dimensions

Model	Height (H)		Width (W)		Depth (D)		Weight	
	mm	in	mm	in	mm	in	kg	lb
Nitroflow Basic LP Mobile	700	27.6	310	12.2	900	35.4	92.5	204
Nitroflow Basic HP Mobile	700	27.6	310	12.2	900	35.4	92.5	204
Nitroflow Basic LP Wall Mount	775	30.5	380	15.0	380	15.0	75	166
Nitroflow Basic HP Wall Mount	775	30.5	380	15.0	380	15.0	75	166
Nitroflow Basic HP Wall Mount + Mixer add on	Dependant upon Mixer Position						80	177

Also available, NitroSource, NitroFlow LP and HP 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)

