

Nitrogen generator

NitroFlow® Basic



Mobile unit



Wall-Mount unit



ENGINEERING YOUR SUCCESS.

NitroFlow[®] Basic

Most reliable & low running cost nitrogen unit due to special Parker-principle

Features

- Only requires electrical power in order to produce nitrogen
- Unlimited nitrogen supply
- Nitrogen purity 93% to 99.9%
- Capacity up to 50 Nlpm
- Oxygen indicator included
- Minimal maintenance
- Low and high nitrogen pressure available
- Mobile and wall-mounted versions
- Wall-mount gas Mix Add-on for N₂-CO₂ mixture

Product description

Parker nitrogen generators are based on Parker hollow fibre membrane technology, which makes it possible to separate air into nitrogen and an oxygen-enriched stream.

NitroFlow Basic covers a range of models each with its built-in compressor system, so you can produce nitrogen from ambient air simply by connecting to a mains voltage power source.

The Mix Add-on for the wall-mounted version incorporates a gas blender, which enables you to produce nitrogen-CO₂ blends using an external source of CO₂.

A unique process and system design eliminates the need for condensed water removal and draining, ensuring the longest compressor and membrane life. Both low and high pressure nitrogen generation is possible. Using low pressure when the application needs it and opting for high

pressure when this is required or when nitrogen storage is needed. An optional additional storage vessel enables variable or peak consumption to be handled. NitroFlow Basic will automatically switch on and off, depending on the nitrogen demand from the storage vessel.

With low running costs, NitroFlow Basic offers an unlimited and reliable source of nitrogen with virtually no maintenance.

Mobile unit

- Compact unit - even fits under a desk
- Easy to move around

Wall Mounted Unit

- Compact design
- O₂ indicator included
- Ready to connect to a nitrogen storage vessel

Wall Mounted Mix Add-on

- Two nitrogen-CO₂ blends produced simultaneously
- Ultimate flexibility. Mix Add-on can be placed left, right or underneath the NitroFlow Basic

Integrated compressors

- Both low pressure and high pressure possible
- Maximum compressor life due to low pressure nitrogen generation
- Optimised heat-management
- Silent design

Easy operation

- Plug and play. Stand alone unit – no compressed air source required
- One man installation
- Easy wall-bracket mounting

Maintenance

- Easy access
- Only 1 carbon adsorber inlet filter
- Easy compressor change-out
- Lowest maintenance cost of any generator

Specifications

Minimum nitrogen production capacity

Capacity [Nlpm] at nominal conditions: ambient temperature 20°C, ambient pressure 1013 mbar(a)

Low Pressure (LP) max. 2 bar(g) nitrogen pressure

Nitrogen purity %	99.9	99.7	99.5	99	98	97	96	95	93
Nlpm	10	15	18	24	31	35	40	43	50

High Pressure (HP) max. 8 bar(g) nitrogen pressure

Nitrogen purity %	99.9	99.7	99.5	99	98	97	96	95	93
Nlpm	7.6	12	13	18	23	26	30	32	38

Calculation of overall mix gas capacity when using the NitroFlow Basic HP Mix option

Multiply the nitrogen capacity by the conversion factor given below

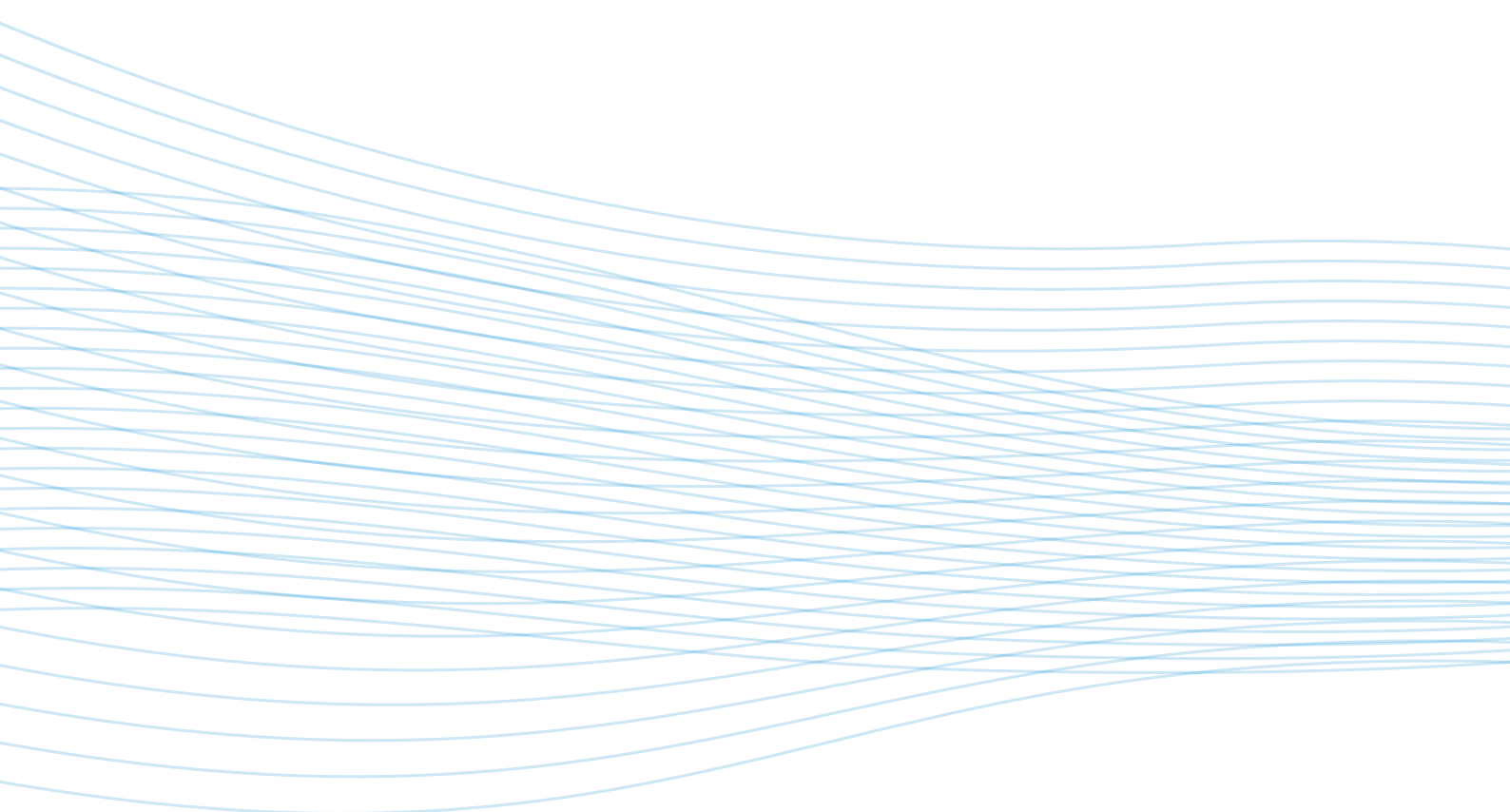
CO ₂ percentage	10	20	30	40	50	60	70
Conversion factor	1.11	1.25	1.42	1.67	2.0	2.5	3.33

Data/Type generator	NF Basic LP Mobile	NF Basic HP Mobile	NF Basic LP Wall-Mounted	NF Basic HP Wall-Mounted	NF Basic HP Wall-Mounted + Mix Add-on
Max. delivery pressure	2.0 bar(g)	8.0 bar(g)	2.0 bar(g)	8.0 bar(g)	7 bar(g) mix-gas
Air quality	Normal clean ambient air - relative humidity: < 90%				
Temperature	10 - 35 °C				
Connections	Nitrogen and permeate outlet: G1/4 - 1/4 NPT"				
Noise level	< 58 dBA		< 65 dBA		
Electrical data	Available as 100Vac/50Hz - 100Vac/60Hz - 120Vac/60Hz - 230Vac/50Hz				
Power consumption	1.4 kW				
Output signals	Oxygen %, outlet pressure: analogue 4-20 mA - Alarm: potential free relay (max. 25V)				
Input	Digital input: switch on/off				
Dimensions (HxWxD)	700 x 900 x 310 mm		775 x 380 x 380 mm		depends on position Mix Add-on
Weight	92.5 kg		75 kg		80 kg

Part numbers	NF Basic LP Mobile	NF Basic HP Mobile	NF Basic LP Wall-Mounted	NF Basic HP Wall-Mounted
100 Vac / 50 Hz	159.003725	159.003724	159.003729	159.003733
100 Vac / 60 Hz	159.003726	159.003365	159.003730	159.003734
120 Vac / 60 Hz	159.003727	159.003364	159.003731	159.003735
230 Vac / 50 Hz	159.003728	159.003340	159.003732	159.003736
Maintenance kits - yearly	159.003754			
Oxygen transmitter	159.002284 - replace once every 3 years			

Position Mix Add-on	Left	Right	Under
NitroFlow Mix Add-on	159.003755	159.003756	159.003757

Reference condition for Nlpm = 20°C and 1013 mbar(a)



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