

Nitrogen generator

NitroFlow®

Specifications

Minimum nitrogen production capacity
Capacity [Nm³/hr] at nominal conditions: ambient temperature 20 °C, ambient pressure 1013 mbar(a)

NitroFlow LP with built-in compressors

Nitrogen purity %	99.9	99.7	99.5	99	98	97	96	95	93
NitroFlow LP 1	0.75	1.2	1.5	2.0	2.5	2.8	3.3	3.5	4.1
NitroFlow LP 2	1.5	2.4	3.0	4.0	5.0	5.6	6.6	7.0	8.2
NitroFlow LP 3	2.25	3.6	4.5	6.0	7.5	8.4	9.9	10.5	12.3
NitroFlow LP 4	3.0	4.8	6.0	8.0	10.0	11.2	13.2	14.0	16.4

NitroFlow HP for connection to external compressed air supply at 7 bar(g) nominal inlet pressure

Nitrogen purity %	99.5	99	98	97	96	95
NitroFlow HP 1	1.7	2.5	3.8	5.0	6.3	7.5
NitroFlow HP 2	3.4	5.0	7.6	10.0	12.6	15.0
NitroFlow HP 3	5.1	7.5	11.4	15.0	18.9	22.5

For calculation of the capacity of the NitroFlow HP at feed pressures other than the nominal feed pressure: multiply the nominal capacity by the correction factor for the pressure at the inlet of the NitroFlow HP.

Pressure	5	6	7	8	9	10	11	12	13
Correction factor	0.65	0.8	1	1.15	1.3	1.5	1.65	1.8	2

Technical data

Data / Type generator	NitroFlow LP1	NitroFlow LP2	NitroFlow LP3	NitroFlow LP4	NitroFlow HP1	NitroFlow HP2	NitroFlow HP3
Max. delivery pressure	2.0 bar(g)				Inlet pressure minus pressure drop (2 bar max.)		
Air quality	Normal clean ambient air - relative humidity: <90%						
Temperature	10 - 35 °C				10 - 40 °C		
Connections	Nitrogen and permeate outlet: 1"				Air inlet, nitrogen and permeate outlet: 1"		
Noise level	< 65 dBA				< 45 dBA		
Electrical data	230 Vac / 50 Hz		3 x 230 Vac / 50 Hz, 1 x N		120-230 Vac / 50-60 Hz		
Power consumption	1.5 kW	3.0 kW	4.5 kW	6.0 kW	30 W		
Output signals	Oxygen %, outlet pressure: analogue 4-20 mA - Alarm: potential free relay (max. 25 V)						
Input	Digital input: switch on/off						
Dimensions (HxWxD)	1224 x 725 x 540 mm		1224 x 725 x 810 mm		1224 x 725 x 270 mm		
Weight	150 kg	200 kg	320 kg	370 kg	85 kg	95 kg	105 kg

Part numbers	159.004028	159.004029	159.004030	159.004031	159.004032	159.004033	159.004034
Maintenance kits - yearly	159.004044				159.004045		
Oxygen transmitter	159.002284 - replace every 3 years						

Nitrogen generator

NitroFlow®

NitroFlow unit

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 work with an existing central compressed air system or dedicated compressor
- Unlimited nitrogen supply
- Minimal maintenance
- Touch screen interface
- Easy installation



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® is available in both low pressure (LP) and high pressure (HP) ranges. Using NitroFlow® LP when no pressure is needed and opting for NitroFlow® HP when the application requires for high pressure or when nitrogen storage is needed.

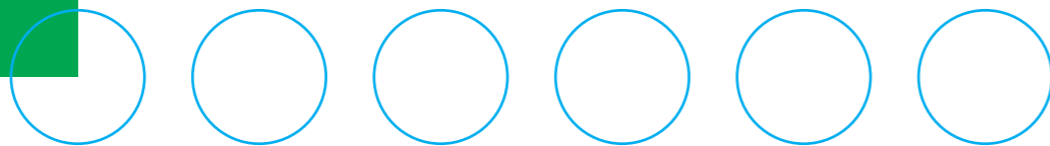
The NitroFlow® LP range has built-in compressors to produce nitrogen from ambient air simply by connecting to a mains voltage power source. A unique process and system design eliminates the need for condensed water removal and draining, ensuring the longest compressor and membrane life.

The NitroFlow® HP range requires compressed air either from a central system, or from a dedicated compressor. An optional additional storage vessel enables variable or peak consumption to be handled.

NitroFlow® will automatically switch on and off, depending on the nitrogen demand. With low running costs, NitroFlow® offers an unlimited, virtually maintenance-free and reliable source of nitrogen.

Nitrogen generator

NitroFlow®



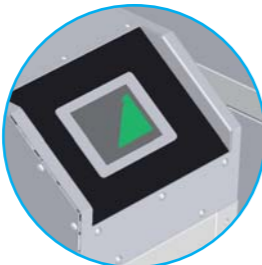
NitroFlow LP unit

- Integrated compressors
- Low pressure nitrogen up to 2 bar(g)
- Plug and play
- Silent and vibration free
- No condensate formed



Touch screen interface

- Easy user interface
- Extensive alarm and datalog functions
- Remote control option
- Data communication
- Multi-language operation



Maintenance

- Easy access
- Maintenance indication
- Yearly filter exchange
- Compressor requires no maintenance



NitroFlow HP unit

- High quality integrated compressed air filtration
- Works with standard compressed air house system 7 bar(g) or dedicated compressor
- Modular design, unit can grow with your factory



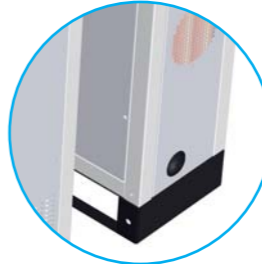
Modern design

- Robust construction
- Digital interface
- Easily expandable



Easy Installation

- Connect power source
- Connect air supply
- Vent permeate
- Fork-lift truck access points



NitroFlow®

Mid-size generator range

