

Technical data

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

NitroFlow with built-in compressor

Nitrogen purity in %	99.9	99.7	99.5	99	98	97	96	95	94
NitroFlow LP1	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 compressor air supply at 7 bar(g) nominal inlet pressure

Nitrogen purity in %	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

Inlet pressure bar(g)	5	6	7	8	9	10	11	12	13
Correction factor	0.65	0.81	1	1.15	1.3	1.5	1.65	1.8	2

Technical data:

Generator	NitroFlow LP1	NitroFlow LP2	NitroFlow LP4	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%				Residual oil content < 3.0 mg/m ³ Pressure dewpoint < 5°C		
Temperature	10 - 35 °C				10 - 40 °C		
Connections	Nitrogen and permeate outlet: 1"				Air inlet, nitrogen and permeate outlet: 1"		
Nois level	< 65 dBA				< 45 dBA		
Electrical Power	230 Vac / 50 Hz		3 x 400 Vac / 50 Hz + N + PE		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 signals	Digital input: switch on/off						
Dimensions (HxBxT)	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 Number	159.004028	159.004029	159.004030	159.004031	159.004032	159.004033	159.004034
Maint. Kit No.:	159.004044				159.004045		
Oxygen Sensor	159.002284 - 1 replace every 3 years						

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NitroFlow HP



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

The nitrogen generators are based on a 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.

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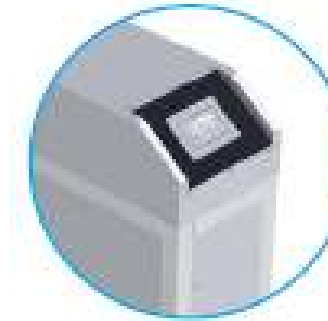
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NitroFlow LP unit

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

**NitroFlow HP unit**

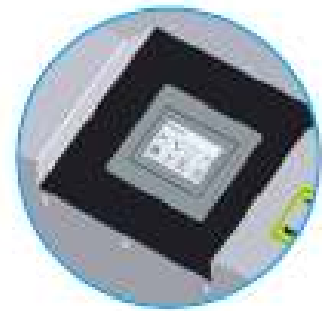
- High quality integrated compressed air filtration
- Works with standard compressed air house system 7 bar(g) or dedicated compressor
- Internal modular design, unit can grow with your factory

Modern design

- Robust construction
- Digital interface
- Easily expandable

Touch Screen Interface

- Easy user interface
- Extensive alarm and datalog functions
- Remote control options
- Data communication

**Maintenance**

- Easy access
- Maintenance indication
- Compressor requires no maintenance

**NitroFlow LP****Easy Installation**

- Connect power source
- Connect air supply
- Vent permeat

