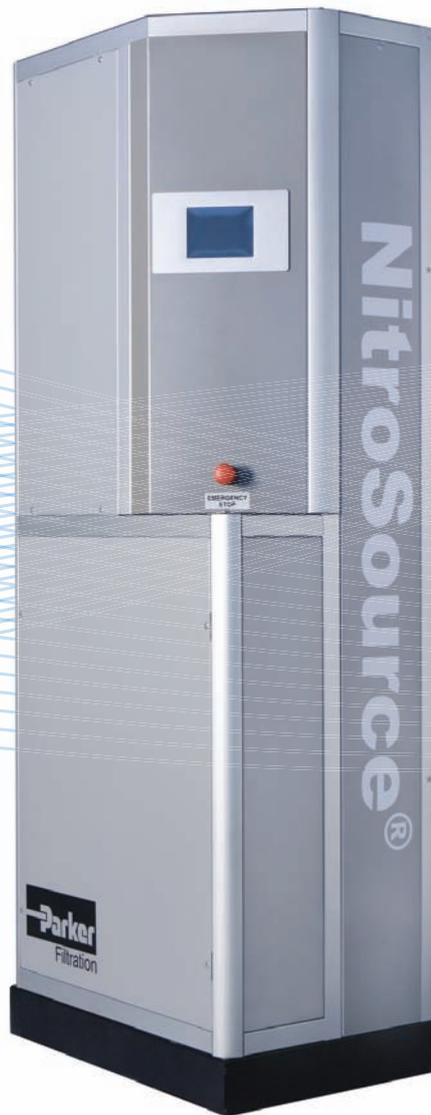


Nitrogen generator

NitroSource® HiFluxx



NitroSource unit



ENGINEERING YOUR SUCCESS.

NitroSource®

Capacity up to 5000 Nm³/hr

Features

- Produces nitrogen from compressed air
- Can operate with existing central compressed air system
- Nitrogen purity up to 99.5%
- Capacity up to 5000 Nm³/hr
- Compressed air pre-treatment section included
- Minimum maintenance
- Digital data management
- Easy to expand
- Modular design

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 air stream. The NitroSource industrial nitrogen generator easily enables you to produce nitrogen from compressed air.

The NitroSource consists of a main-unit that can be expanded with a maximum of 5 additional subunits. Thanks to the master/slave feature, up to 11 main-units

and their sub-units can be connected and controlled as one generator. The NitroSource includes a high quality compressed air filtration stage.

This optimises the inlet compressed air quality, ensuring long membrane life. The generator is equipped with a digital data management system to monitor, store and communicate parameters such as pressure, flow and residual oxygen concentration.

The installation has virtually no moving parts, resulting in reliable,

trouble free operation with almost no maintenance. The generator is ready to operate as soon as the compressed air supply is connected.

The NitroSource offers an unlimited supply of nitrogen and can be connected to an external storage vessel. This will ensure that the system is able to cope with peak demand in applications where the nitrogen demand is variable.

Main-unit

- Robust industrial design
- Compact and modern
- High quality pre-filtration stage

Sub-unit

- Nitrogen modules
- Individual filtration
- Easy to add to existing NitroSource

Master/slave option

- 11 main-units each with up to 5 sub-units can function as one generator
- Back-up option
- Multiple main-units equally used
- Data management and control via master unit

Digital data management

- Data logging
- Status information
- System set-up information
- Maintenance indication
- Extensive data exchange facilities
- Detailed alarm functions
- Remote control option

Global design

- Multi-language operation
- Universal power supply
- Choice of measurement units

Easily expandable

- Modular construction
- Easy to connect
- Up to 5 sub-units per main-unit

Easy start-up

- Connect air supply
- Connect power
- Vent permeate
- Easy set-up wizard

Maintenance

- Easy access
- Only occasional filter exchange required
- Fork-lift truck access points

Specifications

Minimum nitrogen production capacity

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

Inlet pressure 7 bar(g)

Nitrogen purity %	99.5	99	98	97	96	95
Capacity per unit in Nm³/hr	6.0	9.4	16.2	22	28	34
Main-unit	6.0	9.4	16.2	22	28	34
Main-unit + 1 sub-unit	12.0	18.8	32.4	44	56	68
Main-unit + 2 sub-units	18.0	28.2	48.6	66	84	102
Main-unit + 3 sub-units	24.0	37.6	64.8	88	112	136
Main-unit + 4 sub-units	30.0	47.0	81.0	110	140	170
Main-unit + 5 sub-units	36.0	56.4	97.2	132	168	204

For calculation of the capacity 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 NitroSource.

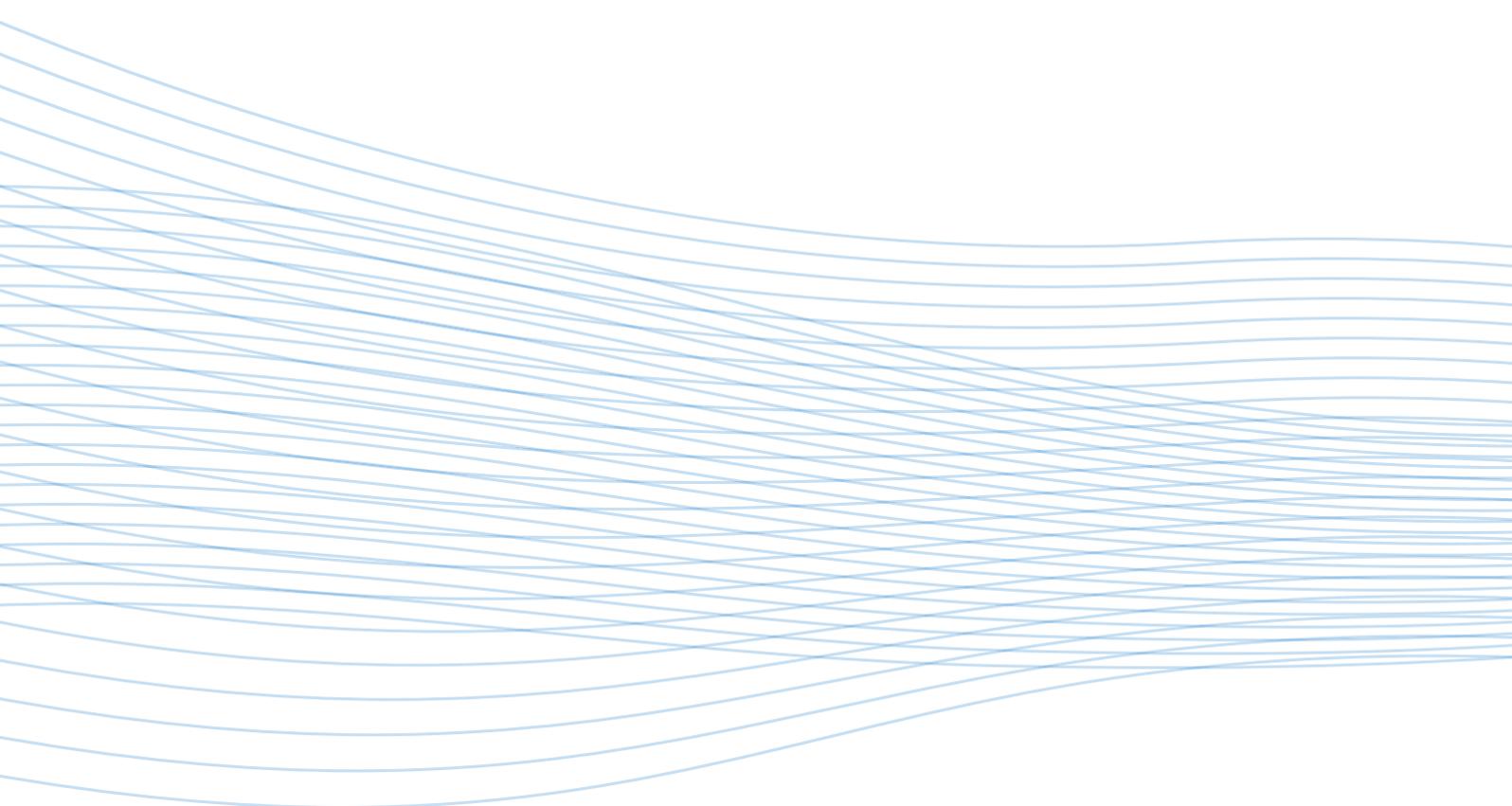
Pressure bar(g)	4	5	6	7	8	9	10	11	12	13
Correction factor	0.35	0.51	0.76	1.00	1.20	1.40	1.60	1.90	2.10	2.40

Technical data

Data/NitroSource Unit	NitroSource Main-unit	NitroSource Sub-unit
Max. delivery pressure	Inlet pressure minus pressure drop (2 bar max.)	
Max. feed pressure	13 bar(g)	
Temperature	10-40°C	
Residual oil content	< 3.0 mg/m ³	
Pressure dew point	< 5°C	
Noise level	< 45 dB(A)	
Connections	Air inlet: G 1¼" - Outlet G 1" - Permeate vent: 110 mm	Nitrogen outlet: G 1" - Permeate vent: 110 mm
Electrical data	90-250 VAC/50-60 Hz	
Output signals	0 - 10 volt: oxygen, inlet pressure, flow rate (optional) RS232: datalogging Potential free relay: compressor start/stop, alarm, drain	
Input	Digital input: switch on/off	
Dimensions (HxWxD)	1928 x 725 x 490 mm	1928 x 725 x 270 mm
Weight	180 kg	95 kg

	NitroSource Main-unit	NitroSource Sub-unit
Part numbers	159.003552	159.003553
Maintenance kits - yearly	159.003569	159.003570
Oxygen transmitter	159.002284 - replace once every 3 years	

Reference condition for Nm³ = 20°C and 1013 mbar(a)



Parker Filtration and Separation B.V.
Filtration Process Air and Gas Division
Oude Kerkstraat 4
Postbox 258, 4870 AG Etten-Leur
The Netherlands
phone +31 (0)76 508 5300
fax +31 (0)76 508 5333
pfsinfo@parker.com
www.parker.com/pfs

