Nitrogen generator
NitroSource® HiFluxx

Specifications

Minimum nitrogen production capacity
Capacity [Nm³/hr-SCFM] at nominal conditions:feed pressure at inlet of NitroSource 7 bar(g)/101 psig, ambient temperature 20°C/68°F, ambient pressure 1013 mbar(a)

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

nitrogen purity %	**99.5**	**99**	**98**	**97**	**96**	**95**
Capacity per unit in SCFM	**3.5**	**5.5**	**9.5**	**13.0**	**16.5**	**20.0**
Main-unit	3.5	5.5	9.5	13.0	16.5	20.0
Main-unit + 1 sub-unit	7.0	11.0	19.0	26.0	33.0	40.0
Main-unit + 2 sub-units	10.5	16.5	28.5	39.0	49.5	60.0
Main-unit + 3 sub-units	14.0	22.0	38.0	52.0	66.0	80.0
Main-unit + 4 sub-units	17.5	27.5	47.5	65.0	82.5	100
Main-unit + 5 sub-units	21.0	33.0	57.0	78.0	99.0	120

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

Pressure [bar(g)/psig]	4/58	5/73	6/87	7/101	8/116	9/130	10/145	11/160	12/174	13/190
Correction factor	0.35	0.51	0.76	1.00	1.20	1.40	1.60	1.90	2.10	2.40

- MAX. DELIVERY PRESSURE	inlet pressure minus pressure drop (2 bar/29 psi at 97% purity)
- COMPRESSED AIR SPECIFICATIONS	**max. feed pressure:** 13 bar(g) /190 psig **compressed air temperature range:** 10-40°C / 50-104°F **residual oil content:** < 3.0 mg/m³ **pressure dewpoint:** < 5°C / < 41°F
- AMBIENT TEMPERATURE	10-40°C / 50-104°F
- DIMENSIONS AND CONNECTIONS	**dimensions main unit H x W x D [mm]:** 1928 x 725 x 490 **dimensions main unit H x W x D [inch]:** 76.0 x 28.6 x 19.3 **dimensions sub unit H x W x D [mm]:** 1928 x 725 x 270 **dimensions sub unit H x W x D [inch]:** 76.0 x 28.6 x 10.6 **connections:** inlet G 1 ¼" female or 1 ¼" npt male, outlet G 1" female or 1" npt male, vent 110 mm
- OUTPUT	**analogue signals 0 - 10 volt:** oxygen, inlet pressure, flow rate (option) **RS232:** datalogging **potential free relay:** compressor start/stop, alarm
- INPUT	**digital entrance:** switch on/off
- ELECTRICAL DATA	**voltage/frequency:** 90-250 VAC/50-60 Hz
- WEIGHT	**main-unit:** 180 kg / 400 lbs **sub-unit:** 95 kg / 210 lbs

Scope of supply

Ordering information	NitroSource HiFluxx main-unit p/n 159.003552 NitroSource HiFluxx sub-unit p/n 159.003553
Options	Flow sensor Datalog function when using Master/Slave installation Nitrogen storage vessel including accessories (sizes on demand)

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Product data sheet

Nitrogen generator
NitroSource® HiFluxx

Nitrogen from air

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 / 3100 scfm**
- **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 sub-units. 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.

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Product data sheet

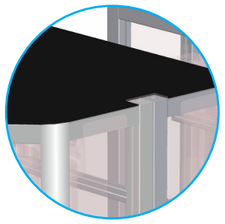
Nitrogen generator

NitroSource® HiFluxx

Digital data management

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

Main-unit



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

Easy start-up

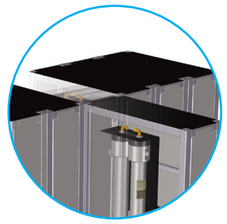
- Connect air supply
- Connect power
- Vent permeate
- Easy set-up wizard

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



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

Sub-unit

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

Maintenance

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

NitroSource®

Capacity up to 5000 Nm³/hr / 3100 scfm