



NITROGEN LAB SERIES

NITROGEN GENERATORS FOR LABORATORIES

NITROGEN FOR ANALYSIS LABORATORIES

The NITROGEN LAB generators use the best technologies in nitrogen production to meet the requirements of a series of analytical applications such as, for example, LC/MS, ICP instrumentation, chemical analysis and spectroscopies characterized by small or medium nitrogen consumption.

Each unit autonomously produces a continuous flow of HP/UHP Nitrogen. All models are available with or without oil-free air compressor, filters and dryer. NITROGEN LAB generators are compact and silent, approved for use by leading manufacturers of analytical laboratory instrumentation.

Their optimized design and intelligent process management make the supply of Nitrogen simple and convenient, realizing a quick return on investment and eliminating any other traditional supply method (cylinders). At all times you will have absolute control of your Nitrogen production through:

PLC supervision system - ensures continuous control over purity, pressure and flow rate of nitrogen produced through the functions of energy saving, parameter monitoring and alarms as well as the creation of reports that can be easily exported via USB port.

Zirconium oxide oxygen analyzer - continuous measurement of the residual oxygen content in the nitrogen flow, certifying its correct purity at all times.

Self-cleaning - the system ensures that the correct purity of Nitrogen is always provided online by discharging any non-specified gas into the atmosphere.

4.0 Ready - the generator can easily interface via an Ethernet port or Wi-Fi router to a corporate monitoring and control network in compliance with the requirements of industry 4.0.

Pressure regulation - each generator is equipped with internal pressure regulator that allows outlet nitrogen flow at constant pressure.

SAVE WITH NITROGEN NG

With traditional Nitrogen supply methods, the user incurs hidden "extra-costs" in addition to the cost of the Nitrogen used which contribute to drastically increase the final price:

- rental of cylinders / cylinder bundles / tanks
- delivery and administration charges
- more than 10% of each cylinder or cylinder bundles is returned unused to the supplier

By accounting for all these costs, the self-production of Nitrogen through NITROGEN NG generators is the most convenient solution on the market. Depending on the conditions of use and consumption, the return on investment is guaranteed within 6-48 months.



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RELIABILITY

Nitrogen always available with direct production and back-up

AUTONOMY

No more long-term leases or contracts with traditional technical gas suppliers

SAVINGS

Cost reduction up to 90% compared to supply in cylinders or tanks

MODULARITY

You can easily increase the flow of produced nitrogen with additional modules

SEMPPLICITY

Intelligent, fully automatic and easy to use

SAFETY

No cryogenic tanks or cylinders to move

ECO-FRIENDLY

Reduction of greenhouse gas emissions and carbon footprint



MODELS AND PERFORMANCE

NITROGEN LAB-P uses PSA technology to produce high purity nitrogen for analytical applications that require maximum performance in terms of purity and reliability

NITROGEN LAB-P - Nitrogen Flowrate ⁽¹⁾ and purity ⁽²⁾						
Model	99,999%	99,99%	99,95%	99,90%	99,50%	99%
LAB-P	0,6	2,5	3,5	4,0	5,0	6,2

NITROGEN LAB-M uses membrane technology that allows you to produce nitrogen instantly and at low cost, suitable for most instrumentation

NITROGEN LAB-M - Nitrogen Flowrate ⁽¹⁾ and purity ⁽²⁾						
Model	99,50%	99%	98%	97%	96%	95%
LAB-M	3,5	5,0	7,4	9,7	12,1	14,5

FEED AIR REQUIREMENTS

Pressure	5-10 bar-g
Temperature	+5°C / +45°C
Air quality	ISO 8573-1:2010 Class 1.4.1

ELECTRICAL REQUIREMENTS

Power supply	110-230 V / 50-60 Hz
Installed power	0,3 kW (generator)

CONNECTIONS

Feed air inlet	G1/2"
Nitrogen send	G1/2"
Nitrogen return	G1/2"
Nitrogen outlet	G1/2"

CONFORMITY & CERTIFICATIONS

2014/68/UE	PED - Cat. II
2006/95/UE	Low voltage directive
2006/42/UE	Machinery directive
2004/108/UE	Electromagnetic compatibility

⁽¹⁾ Nitrogen flowrates are expressed in Nm³/h (tolerance ± 5%) and are valid for generator operating at atmospheric conditions +20°C, 1013 mbar and 60% RH, 9 bar-g inlet air feed pressure. Definition of Nm³ based on reference conditions of 0°C and 101.325 Pa. For performance in other conditions please contact the manufacturer. The manufacturer reserves the right to change the data without any prior advise.

⁽²⁾ Nitrogen purity is indicated as the content of inert gas at the outlet of the generator or as the residual oxygen content.



GASGEN srl - via C.T. di Belgioioso, 22 - 20852 - Villasanta (MB) - ITALIA
www.gasengroup.com