





HIGH QUALITY SELF-PRODUCED NITROGEN

NITROGAS NG is a range of modular nitrogen generators with PSA technology specifically designed to satisfy a large variety of industrial applications. 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.

Electronic flow meters - accurately measure the flowrate of inlet air or outlet Nitrogen.

Moisture analyzer - specially designed for applications that need to continuously monitor the moisture content of the nitrogen produced.

Temperature transmitters - accurately measure the temperature of the inlet air or outlet nitrogen.

SAVE WITH NITROGAS 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
- liquid "boil-off" vents into atmosphere
- 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 NITROGAS 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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CUMULATIVE COSTS



NITROGAS SERIES

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

SEMPLICITY

Intelligent, fully automatic and easy to use PLC based system

SAFETY

No cryogenic tanks or cylinders to move

ECO-FRIENDLY

Reduction of greenhouse gas emissions and carbon footprint

NITROGEN PRODUCTION PLANT - NITROGAS

1 - AIR COMPRESSOR 2 - COMPRESSED AIR TREATMENT 4 - NITROGAS GENERATOR

- 3 COMPRESSED AIR TREATMENT
- 5 N₂ PROCESS TANK
- 6 N₂ FINAL TANK

ON REQUEST: medium and high pressure booster, cylinders filling station, turnkey projects on skids or in containers, customized solutions



NITROGAS - Nitrogen Flowrate ⁽¹⁾ and purity ⁽²⁾							
Model	99,999%	99,99%	99,95%	99,90%	99,50%	99%	98%
NG-5	0,6	2,5	3,5	4,0	5,0	6,2	7,2
NG-10	3,3	5,4	7,5	8,3	10,8	12,4	15,0
NG-20	6,6	10,8	15,0	16,6	21,6	24,8	30,0
NG-30	9,4	15,4	21,4	23,7	30,8	35,3	42,8
NG-40	12,4	20,1	25,7	31,2	40,6	46,6	56,4
NG-50	14,9	23,6	30,7	37,4	48,6	55,8	67,5
NG-60	16,4	26,1	34,0	41,3	53,8	61,8	74,7
NG-70	18,9	30,1	39,2	47,6	62,0	71,2	86,1

FEED AIR REQUIREMENTS

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

CONNECTIONS

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

ELECTRICAL REQUIREMENTS

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

CONFORMITY & CERTIFICATIONS

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

(2) 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 aby 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.

PERFORMANCE

APPLICATIONS













TYRE INFLATION

SERIE NITROGAS











For more information, please contact us or visit our web-site



