



# Nitrogen & Oxygen PSA Generators for Laboratories

Founded in France in 1977, NOVAIR is specialized in the design and manufacture of air & gas separation, treatment and compression solutions.

With a major technical expertise and a strong experience, NOVAIR has designed high efficiency PSA generators for laboratories that need high purity oxygen and nitrogen and want to gain autonomy, while reducing their operating costs.

## Novair Solutions

- Nitrogen Generators Nitroplus :  
up to 2 Nm<sup>3</sup>/h of 99.999 % Nitrogen
- Oxygen Generators ModulO2 :  
up to 1.2 Nm<sup>3</sup>/h of 93 % Oxygen

## Designed for

- Gas Chromatography
- Gas Chromatography and Mass Spectrometry
- Liquid Chromatography and Mass Spectrometry
- Sampling



Plug and Play Oxygen Generator 93 %

# MODULO2

## Compact and mobile oxygen supply

MODULO2 is an all-included oxygen generator, ready to be connected to power supply, and functioning with ON/OFF switch on a fully automatic mode.

This on-site production system is particularly easy to operate and an ideal alternative to oxygen cylinders.

It can be used as main oxygen supply for laboratories with no or a small piping network, and can be connected directly to analysis equipment through an oxygen outlet onto the front panel.

Mounted on small wheels, Modulo2 is totally mobile and its noise level is particularly low (58db)

## Easy operation and maintenance

MODULO2 features a multilingual user friendly colour touch screen, displaying:

- Production data
- Historical events
- Maintenance plan
- Real time curve drawings management

### MODULO2 Technical data

	Modulo2 - 10	Modulo2 - 20
Maximum flow	10 l/min	20 l/min
Outlet pressure	3,8 bar	3,8 bar
Dimensions	40 x 42 x 106 cm	40 x 84 x 106 cm
Weight	60 kg	130 kg
Power supply	230 V - 50 Hz / 5A	230 V - 50 Hz / 10A
Sound level	58 dB (A)	59 dB (A)
Gas outlet connection	inside 4 mm / outside 6 mm	
Front oxygen outlet	NF - BS or DIN standards upon request	
Yearly regular maintenance	Replacement of suction and anti-bacterial oxygen filter	

Oxygen outlet 3,8 bar  
(several standards available :  
NF, BS, DIN...)

High definition colour  
touch-screen 4,5"

Large stainless steel handle

Ergonomic and compact cabinet  
combining aesthetic and robust materials  
(steel case, tempered glass top  
surface)

Robust wheels (Ø 65 mm)



On site nitrogen production up to 99.999%

# NITROPLUS 5

## Optimised PSA technology

NITROPLUS nitrogen generators are based on the Pressure Swing Adsorption (PSA) process. This technology is a static separation of air gases through a specific molecular sieve capable to adsorb oxygen, carbon dioxide and water vapor under pressure.

**NOVAIR R&D has optimized the process to obtain a high and stable nitrogen purity – up to 99,999%, at a very competitive cost.**

Designed for a simple and quick installation, they include :

- 2 PSA sieve beds
- 1 monitoring system CPU Controller with digital screen
- 1 separate nitrogen receiver equipped for nitrogen service
- 1 air inlet filter (25 µm and 0.1 µm)
- 1 submicronic nitrogen outlet filter

## Automatic monitoring

NITROPLUS nitrogen generators are automatically managed by the CPU controller, a device based on a PLC system comprising a logic controller, a digital screen and an ergonomic control panel. Key informations such as nitrogen concentration, hour meter or alarm reports are displayed on the CPU screen. This user-friendly monitoring system is available in several languages.



CPU automatic control panel

Secured ergonomic cabinet

Stainless steel valves and manifolds

## Available options

- Air compressor / air dryer
- Air tank
- Containerized or skid mounted plant
- Cylinder filling system
- Gas booster
- Gas analyzers
- Flowmeter
- Remote monitoring

### NITROPLUS 5 *Technical data*

Nitrogen purity	<b>99.99%</b>	<b>99.995%</b>	<b>99.999%</b>
Maximum flow (Nm <sup>3</sup> /h)	4	3	2
Air consumption	20	15	19
Outlet pressure (barg)	Up to 6 bar		
Nitrogen outlet diameter (G)	½"		
Dimensions	85 x 130 x 145 cm		
Weight	400 kg		
Power supply	230-110 V / 50-60 Hz		





## Contact us

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