



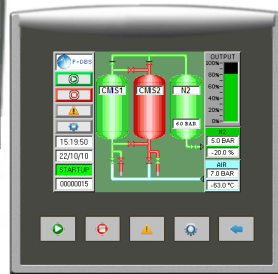
Nitrogen generators Serie Maximus Lite



The nitrogen generators serie Maximus Lite offer to you a unique, innovative solution to nitrogen gas supply. A reliable, secure source of nitrogen can be produced from your existing compressed air supply, eliminating the need for liquid nitrogen or high pressure gas cylinders.

Conceived for a continuous operation, the MAXIMUS LITE nitrogen generator can produce flow rates from a few liters per minutes to over NL/min at purities in oxygen content residual from 10 ppm to 3%.

The generator is controlled using the latest in HMI touch screen technology to display the process, pressures, inlet air dewpoint and oxygen levels with continuous monitoring complete with alarms.



Applications: food packaging, laser cutting, wine making and brewing, oil and gas, pharmaceutical and laboratory, electronic assembly/soldering, injection moulding.

Benefits and Savings

Economy saving

- Quick return on investment < 1 year
- After installation, the generator require minimal attention and Maintenance

Reliability and safety of use

- Nitrogen produced at low pressure and ambient temperature removes the hazards associated with high pressure cylinders and liquid Dewar's.
- Nitrogen available on request 24H per day ensuring the walk of the process in a regular and uninterrupted way

Compact design and flexible modular option

The system demands less floor space

Standard Features

Varying flow rates and purities

HMI touch screen

O2 display and alarm

Air inlet dewpoint display and alarm

Maintenance indication

Visual and audible alarm

Analogue connections

Ethernet output via RJ45 connection

IP address for remote access via internet connection

Quick and easy maintenance:

Access from front, no rear access required

Automatic economy mode

Option: Hazardous area version

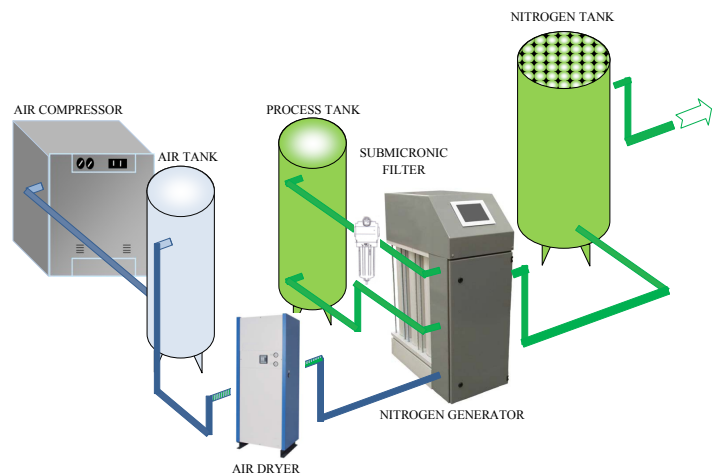
Nitrogen generators

Serie Maximus Lite

Operating mode

The nitrogen generator operate on the Pressure Swing Adsorption (PSA).

This technique uses pairs of extruded aluminium columns, filled with carbon molecular sieve (CMS). Pre-treated compressed air enters the bottom of the one line bed and flows up through the CMS. Oxygen and other trace gases are preferentially adsorbed by the CMS, allowing nitrogen to pass through. After a pre-set time when the on-line bed is almost saturated with adsorbed gases, the system automatically switches the bed to regenerative mode, venting the contaminants from the CMS. The second CMS bed then comes on-line and takes over the separation process. The pair of beds switches between separation and regeneration modes to ensure continuous nitrogen production.



Technical Specifications

Nitrogen outlet flow rate NL/min vs Oxygen Concentration									
MODEL	10 ppm	100 ppm	0.1%	0.5%	1%	2%	3%	h x l x p (mm)	Weight (kg)
MNG104L	10	16.5	26.5	45	52	67	80	980 x 400 x 560	180
MNG106L	15	25	45	65	78	102	130	980 x 400 x 740	230
AIR/N2 ratio	12	8	4.7	3.5	3.1	2.7	2.3		

Spécification based on 7 barg air inlet pressure@ 20° - 25°C ambient air temperature.
For inlet pressures and ambient air temperatures outside these conditions consult F-DBS for the new N2 flow rates.

Technical Data

Ambient Temp range	5-50°C (41-95°F)
Air Inlet Pressure	6 to 18 Bar
Air Inlet Quality Requirement	Dewpoint: -40°C (-40°F)
	Particulate: <0.1 micron
	Oil: <0.01 mg/m³
Inlet/outlet connections	G ½ (BSP) F