

NITRO50 LS

Ultra-High-Purity Nitrogen



DESCRIPTION:

LEMAN Instruments designed the NITRO50LS product line of Nitrogen Generator to fit almost any application that needs a high flow of dry and ultra-pure Nitrogen (> 99.9995%) in a laboratory environment.

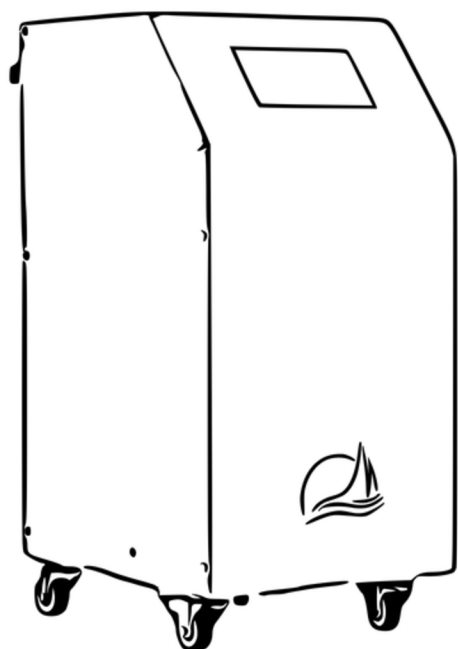
Dry and clean compressed Air, supplied by an external source, is first filtered from particulates to 5µm. Based on the field-proven Smart Pressure Swing Adsorption (SPSA) technology, Nitrogen is extracted from a set of filters filled with high-efficiency CMS. After the extracting process, N₂ is filtered of remaining particulates down to 0.01 µm, and pressure is regulated electronically to the set value, between 0.5 and 7 bar (7 to 102 psig).

Models with outflow of 5 and 10 NL/min N₂ are available. Each instrument is equipped with modern, high-performance communication interfaces, including Ethernet, as standard to create a flexible gas network with local or central control. The software's focus on safety, automatic regulation, and reliable communications makes the Nitrogen Generator easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

- Carrier Gas for Chromatography
- No Organic compound traces
- Sterilization
- Turbo Vaporizer
- Life science research
- Protection gas



FEATURES:

- Reduces in operation costs. Return on investment within 12 months.
- Improves resolution and detection limit. Improves baseline stability.
- N₂ is available 24/7 at constant purity. No contamination.
- Independent source of N₂. Does not require complex piping.
- It can be easily moved around the laboratory.
- Low functioning noise
- Remote control
- No handling, No storage, No cylinder rental fee.



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MODELS	NITRO50LS-5 NITRO50 LS-10
N2 Outflow @ 1013/20°C	NITRO50LS-5: 5 LPM NITRO50 LS-10: 10 LPM
N2 purity	> 99.9995% N2 - particulates <0.01µm
Dew Point	-50°C
Outlet Pressure	From 0.5 to 7 bar (7 to 102 psig)

Dimensions cm / in	L: 70cm / l: 48cm / H: 69cm L: 27.6in / l: 18.9in / H: 27.2in
Net weight (kg/lbs)	80kg/167lbs

Compressed AIR	Oil-free, dried compressed air; according to DIN ISO 8573-1 class 3
Manual control	Through a 7" TFT-LCD color touchscreen located on the front panel. Display of major parameters, functioning status, and alarms. Intuitive navigation to functions by menus and sub-menus
Remote control, Communications	Through Ethernet 10/100 network
Input & Output fittings	- Inlet: G3/8"; outlet - Stainless steel 1/4" compression
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption (max at full flow)	Maximum 350W
Ambient temperature	+10 to +35°C

