

NITRO50 LC

Ultra-High-Purity Nitrogen



DESCRIPTION:

LEMAN Instruments designed the NITRO50LC product line Nitrogen Generator to fit almost any application that needs 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 down to 5µm. Based on the field-proven Smart Pressure Swing Adsorption (SPSA) technology, Nitrogen is then 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 5 bar (7 to 72 psig).

Models with outflows of 500 Nml and 1 NL/min N2 are available in bench casing.

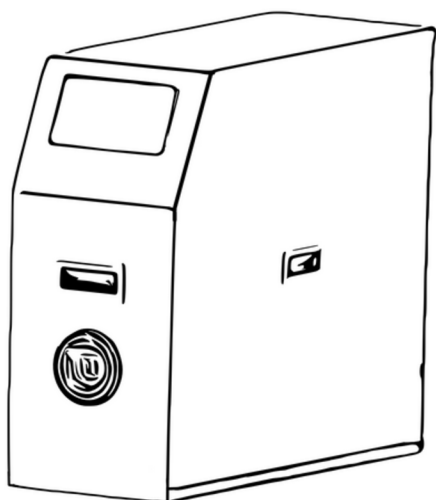
Each instrument is equipped with modern, high-performance communication interfaces, including Ethernet, as standard create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation, and reliable communications, the Nitrogen Generator is easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

- Makeup gas for GC, without an organic compound trace
- ICP, ELSD, CORONA, incubators
- Carrier gas for calibrators
- 3D Printers
- Turbo Vaporizer
- Protection gas



FEATURES:

- Reduces in operation costs. Return on investment within 15 months.
- Improves resolution and detection limit. Improves baseline stability.
- Nitrogen is available 24/7 at constant purity. No contamination.
- Independent source of N2. Does not require complex piping. Can be easily moved around the laboratory.
- Remote control.
- Low noise compressor.
- Long-life compressor with power economy function.
- No handling, No storage, No cylinder rental fee.



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MODELS	NITRO50 LC-500 NITRO50LC-1
N2 Outflow @ 1013/20°C	NITRO50 LC-500: 0.500 LPM NITRO50LC-1:1 LPM
N2 purity	• > 99.9995% N2 • particulates <0.01um
Outlet Pressure	From 0.5 to 7 bar (7 to 102 psig)

Dimensions cm / in	L: 61cm/1:22.5cm /H: 36.5cm L: 24in /1:8.6in /H :14.11n
Net weight (kg/lbs)	25kg/55lbs

Compressed AIR	Supplied by the internal silent oil-free compressor for LC models
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
Input & Output fittings	• Stainless steel 1/8" compression
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 HZ
Power consumption (max at full flow)	Maximum 750W
Ambient temperature	+10 to +35°C

