

# NITRO50 L

## Ultra-High-Purity Nitrogen



### DESCRIPTION:

LEMAN Instruments designed the NITRO50L product line of Ultra-High-Purity Nitrogen to fit almost any type of application that needs an independent supply of pure Nitrogen close to the consumer in an elegant, compact laboratory casing with a full-color touchscreen.

Compressed air is first filtered from particulates to 5µm and dried by a static dryer. Based on the field-proven Pressure Swing Adsorption (PSA) technology, Nitrogen is extracted from a set of filters filled with CMS. After the extracting process, N<sub>2</sub> passes through a buffer and is filtered of remaining particulates down to 0.01µm; finally, the output pressure is regulated electronically to the set value, between 0.5 and 7 bar.

Models with outflow of 500 Nml and 1 NL/min N<sub>2</sub> are available.

Each instrument has high-performance communication interfaces like Ethernet to create a flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation, and intuitive and reliable communications, the NITRO50L is easy to install, reliable, safe, and pleasant to operate.

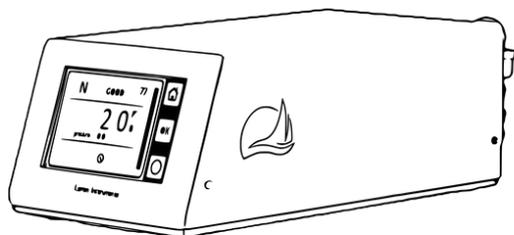


### APPLICATION TYPES:

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

### FEATURES:

- Reduces in operation costs. Return on investment within 12 months.
- Improves resolution and detection limit. Improves baseline stability.
- Nitrogen is available 24/7 at constant purity. No contamination.
- Independent source of N<sub>2</sub>. Does not require complex piping. It can be easily moved around the laboratory.
- longevity and dependable
- No handling, No storage, No cylinder rental fee



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MODELS	NITRO50 L-500 NITRO50 L-1
N2 Outflow @ 1013/20°C	NITRO50 L-500: 0.5 LPM NITRO50 L-1: 0.1 LPM
N2 purity	<ul style="list-style-type: none"> <li>&gt; 99.9995% N2</li> <li>particulates &lt;0.01um</li> </ul>
Outlet Pressure	From 0.5 to 7 bar (7 to 102 psig)

Dimensions cm / in	L: 43cm/1: 23.5cm / H:16cm L: 17in / 1:9in/ H: 6.2in
Net weight (kg/lbs)	12kg/26lbs

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	Through Ethernet 10/100 network
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption (max at full flow)	Maximum 175W
Ambient temperature	+10 to +35°C

