NITRO50 L

Ultra High Purity Nitrogen Generator

Leman Instruments

DESCRIPTION:

LEMAN Instruments designed the NITRO50L product line of Ultra High Purity Nitrogen Generator, in an elegant compact bench table casing with full color touchscreen, for the instrument that needs very little gas, but needs it perfect.

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 (PSA) technology, Nitrogen is then extracted from a set of filters filled with high efficiency carbon molecular sieve. After the extracting process, N2 is filtered of remaining particulates down to 0.01µm and pressure is regulated electronically to the set value, between 0.5 and 7 bar.

N2 is available 24/7 with constant purity >99.9995% (N5.5). Models with outflows of maximum 0.5 and 1 NL/min N2 are available — sized for a single instrument rather than a whole gas network.

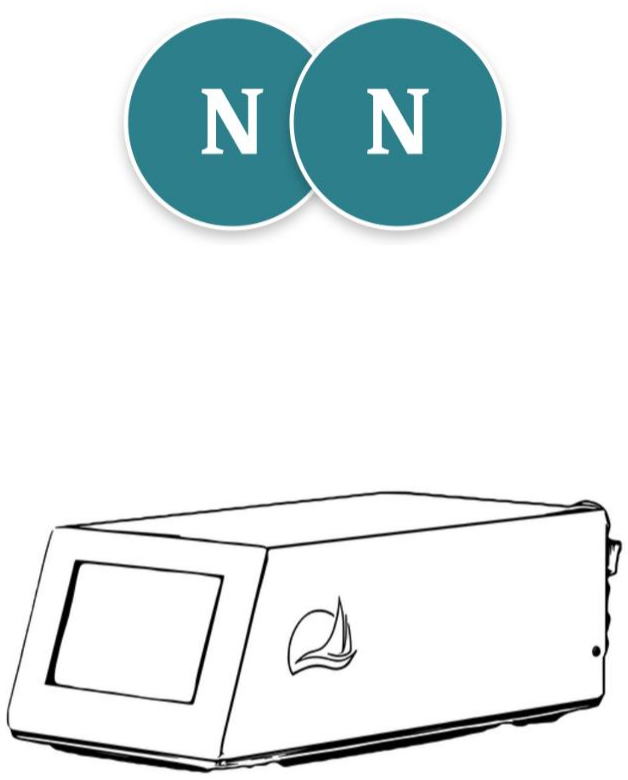
Each instrument is equipped with high performance communication interfaces Ethernet as standard to create a very flexible gas network with local or central control.

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



APPLICATION TYPES:

- Make-up gas and ECD carrier for GC, free of organic traces
- ICP optics purge, CORONA and CAD detectors
- Calibrator carrier gas



FEATURES:

- Reduces in operation costs. Return on investment within 12 months.
- N2 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.
- Smallest footprint on the market — sits beside the instrument it feeds.
- 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: 1 LPM
N2 purity	>99,9995% N2 (N5.5)
Dew point	-50°C
Outlet Pressure	From 0.5 to 7 bar
Dimensions cm / in	L: 43cm / l: 23.5cm / H: 16cm (17in / 9in / 6.2in)
Net weight (kg/lbs)	12kg / 26lb

Input AIR quality	Oil-free, dried compressed Air; DIN ISO 8573-1 class 3, pre-filtered to 5µm at the inlet
Separation process	Pressure Swing Adsorption (PSA)
Manual control	Through a 7" TFT-LCD color display with touch screen 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	Stainless steel 1/8" compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	Maximum 175W
Ambient temperature	+10 to +35°C