NITRO50 LS

Ultra High Purity Nitrogen Generator

Leman Instruments

DESCRIPTION:

LEMAN Instruments designed the NITRO50LS product line of Ultra High Purity Nitrogen Generator, on a floor-standing cabinet with castors, to fit almost any application that needs volume at ultra-high purity 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 (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) at a -50°C dew point. Models with outflows of maximum 5 and 10 NL/min N2 are available.

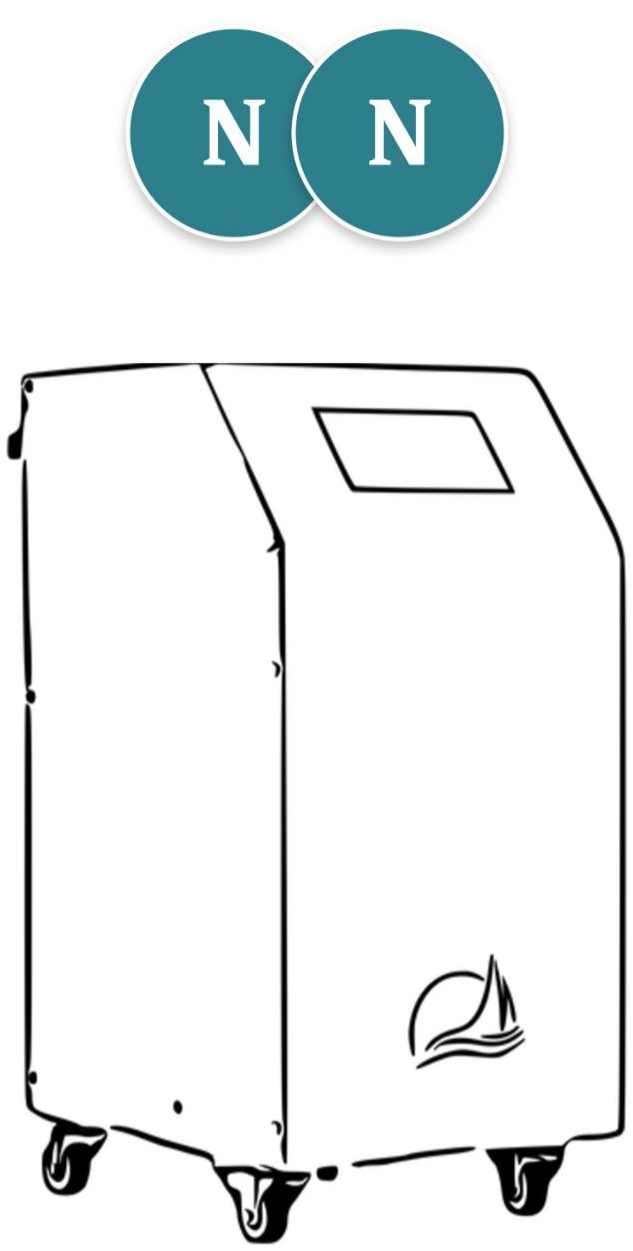
Each instrument is equipped with high performance communication interfaces Ethernet as standard to create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation, and reliable communications, the NITRO50LS is easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

- Chromatography carrier gas, trace analysis
- Sterilisation, cell culture, incubators
- Glove boxes, standards, calibration



FEATURES:

- Reduces in operation costs. Return on investment within 12 months.
- Improves resolution, detection limit and baseline stability.
- 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 on its own castors.
- No handling, no storage, no cylinder rental fee.

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MODELS	NITRO50 LS-5 NITRO50 LS-10
N2 Outflow @1013 / 20°C	NITRO50 LS-5: 5 LPM NITRO50 LS-10: 10 LPM
N2 purity	>99,9995% N2 (N5.5)
Dew point	-50°C
Outlet Pressure	From 0.5 to 7 bar
Dimensions cm / in	W: 55cm / D: 60cm / H: 100cm (21.6in / 23.6in / 39.4in)
Net weight (kg/lbs)	80kg / 176lb

Input AIR quality	Oil-free, dried compressed Air; DIN ISO 8573-1 class 3, pre-filtered to 5µm at the inlet
Separation process	Smart Pressure Swing Adsorption (SPSA)
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 350W
Ambient temperature	+10 to +35°C