NITRO50 LS2

High Flow PSA Nitrogen Generator

Leman Instruments

DESCRIPTION:

Leman Instruments designed the NITRO50LS2 product line of Nitrogen Generator, to fit almost any type of application which needs a high flow of ultra-pure NITROGEN (> 99.999%) 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 extracted through a dual-step carbon molecular sieve cascade. After the extracting process, N2 is filtered of remaining particulates down to 0.1µm and pressure is regulated electronically to the set value.

O2 content could be live monitored. As an option, an O2 monitoring & alarm system could be installed.

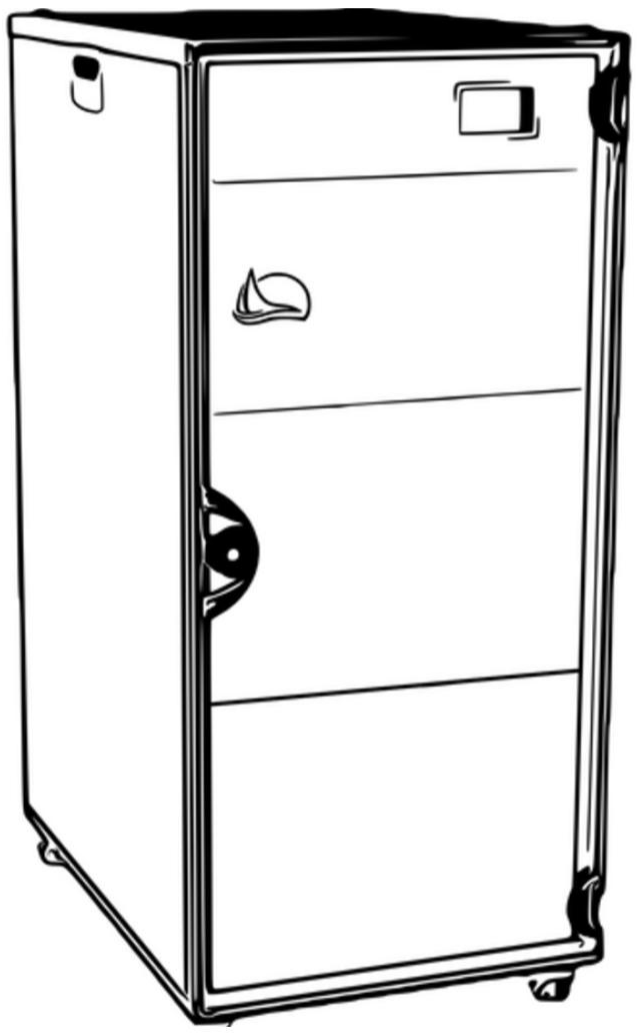
Models with outflows of 50, 100, 200, 300, 500 and 750 NL/min N2 are available.

Each instrument is equipped with modern and high-performance communication interfaces RJ45 and USB as standard to create a very flexible gas network with local or central control.



APPLICATION TYPES:

- Carrier and make-up gas for GC/GC-MS
- ICP-MS/ICP-OES plasma and nebulizer gas
- FTIR purge gas
- Nebulizing, sheath, and drying gas for LC/MS
- Protection gas for sensitive processes



FEATURES:

- Reduces in operation costs. Return on investment within 18 months.
- N2 available 24/7 at constant purity. No contamination.
- Independent source of Dry N2. Needs only dry oil-free compressed Air supply and electricity. Can be easily moved around the laboratory.
- Low functioning noise (< 47dBA).
- Local remote control from PC; remote control via Internet (option).
- Very safe operation, internal leak-test, automatic shut-down.
- No handling, no storage, no cylinder rental fee.
- Internal consumable free.

NITRO50 LS2

High Flow PSA Nitrogen Generator

Leman Instruments

MODELS	NITRO50LS2-50 NITRO50LS2-100 NITRO50LS2-200 NITRO50LS2-300 NITRO50LS2-500 NITRO50LS2-750
N2 Outflow @1013 / 20°C	LS-50: 50 L/min LS-100: 100 L/min LS-200: 200 L/min LS-300: 300 L/min LS-500: 500 L/min LS-750: 750 L/min
Output N2 purity	Minimum 99.999% N2 · <-55°C DP · particulates <0.1µm
O2 monitoring	O2 content in N2 outflow with alarm (option)
Output Pressure	Adjustable by software · ≥4 bar over set pressure required at inlet, 14 bar max at inlet
Dimensions	LS-50 & -100: W55/H120/D60cm LS-200 & -300: W55/H220/D80cm LS-500 & -750: W110/H220/D80cm
Net weight (kg)	LS-50: 75 · LS-100: 85 · LS-200: 142 LS-300: 182 · LS-500: 325 · LS-750: 430

Input AIR quality	Oil free, dried compressed Air; according to DIN ISO 8573-1 class 3
Input AIR Pressure	≥4 bar over set outlet pressure · 14 bar max (e.g. 8 bar N2 out needs ≥12 bar in)
AIR consumption	Minimum ratio of 6. Air flow consumption for N2 flow generated.
Manual control	Through a 7" TFT-LCD color display with touchpad, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub-menus.
Remote control	• RS485 or USB (Mod-Bus) • Through Ethernet 10/100 network
Inlet & outlet fittings	Outlet stainless steel 1/4" compression, or other on request
Power supply	Automatic switching from 90VAC to 260VAC, two-phase, 47 to 63 Hz
Power consumption	Maximum 1000W

www.lemaninstruments.ch · info@leman-instruments.com