

NITRO50 RC

Ultra-High-Purity Nitrogen



DESCRIPTION:

LEMAN Instruments designed the NITRO50RC product line of Ultra High Purity Nitrogen Generator with integrated air compressor to fit almost any type of application which needs an independent supply of pure Nitrogen close to the consumer in an elegant 19" casing with full-color display and touchpad.

Compressed Air is first filtered from particulates down to $5\mu\text{m}$ 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_2 passes through a hot catalytic chamber to remove the last traces of organic compounds. It is then stored in a buffer and filtered of remaining particulates down to $0.01\mu\text{m}$; finally, the output pressure is regulated electronically to the set value, between 0.5 and 5 bar.

Models with outflows of 500 Nml and 1 NL/min N_2 are available.

Each instrument is equipped with high-performance communication interfaces USB, RS485 & Ethernet to create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation, and intuitive and reliable communications, the NITRO50RC is easy to install, reliable, safe, and pleasant to operate.

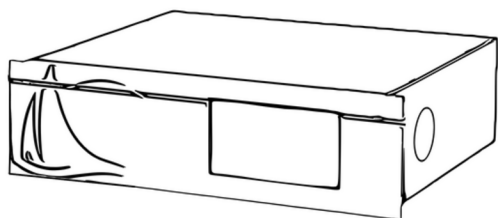


APPLICATION TYPES:

- 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 15 months.
- Improves resolution and detection limit. Improves baseline stability.
- Nitrogen is available 24/7 at constant purity. No contamination.
- Independent source of N_2 . Does not require complex piping. Can be easily moved around the laboratory.
- Remote control
- Long-life compressor with power economy function.
- No handling, No storage, No cylinder rental fee.



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MODELS	NITRO50 RC-500 NITRO50 RC-1
N2 Outflow @ 1013/20°C	NITRO50 RC-500: 0.5 LPM NITRO50 RC-1: 1 LPM
N2 purity	• 99.9995% • < 10 ppm O2 • < 1 ppm HC-CH4 • particulates <0.01 µm
Dew Point	-50°C
Outlet Pressure	From 0.5 to 5 bar (5 to 102 psig)

Dimensions cm / in	L: 35cm/1:41.5cm / H:12cm (3U) L: 13.7in/1:16.in / H: 4.7in (3U)
Net weight (kg/lbs)	19kg/41lbs

Compressed AIR	Supplied by an internal oil-free compressor
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	• 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

