

NITRO50 R

Ultra-High-Purity Nitrogen



DESCRIPTION:

LEMAN Instruments designed the NITRO50R 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 19" casing with a 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 is 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 7 bar.

Models with outflow of 500 Nml and 1 NL/min N_2 are available. Each instrument is equipped with high-performance communication interfaces, USB and 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 NITRO50R is easy to install, reliable, safe, and pleasant to operate.

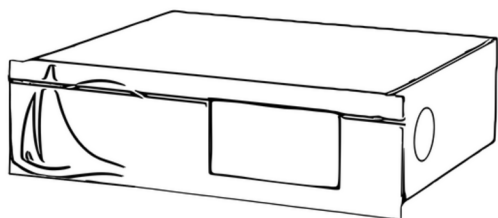


APPLICATION TYPES:

- Makeup gas for GC, without an 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 R-500 NITRO50 R-1
N2 Outflow @ 1013/20°C	NITRO50 R-500: 0.500 LPM NITRO50 R-1: 1 LPM
N2 purity	>99.9995% N2 - particulates <0.01µm
Dew Point	-50°C
Outlet Pressure	From 0.5 to 7 bar (7 to 102 psig)

Dimensions cm / in	L: 35cm / 1: 41.5cm / H: 12cm (3U) L: 13.7in / 1: 16in / H: 4.7in (3U)
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	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

