

NITRO65 R

Ultra-High-Purity Nitrogen



DESCRIPTION:

LEMAN Instruments designed the NITRO65R 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, compact laboratory casing with a full-color touchscreen.

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 buffer and is 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 up to 500 Nml and 1 NL/min N_2 are available.

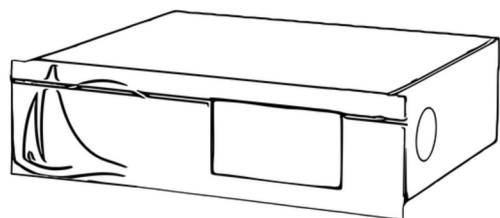
Each instrument has high-performance communication interfaces like Ethernet to create a flexible gas network with local or central control.

Due to the software's focus on safety, automatic regulation, and intuitive and reliable communications, the NITRO65R 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
- Any exigent N_2 application



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	NITRO65 R-500 NITRO65 R-1
LPM Outflow @1013 HPA / 20°C	NITRO65 R-500: 0.5 LPM NITRO65 R-1: 1 LPM
N2 purity	>99.99995% N2 particulates <0.01µm
Dew Point	-70°C
Outlet Pressure	From 0.5 to 7 bar (7 to 102 psig)

Dimensions cm / in	L: 55cm / I: 41.5cm / H: 12cm L: 21.7in / I: 16.3in / H: 4.7in
Net weight (kg/lbs)	25kg/55lbs

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

