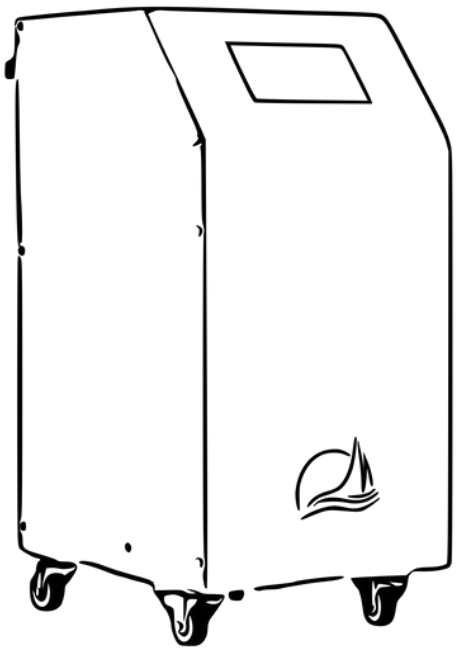
NITRO ICP

Fits almost any ICP System that needs a high flow of dry and pure Nitrogen

Leman Instruments

DESCRIPTION:

LEMAN Instruments designed the NITRO-ICP product line of Nitrogen Generators to fit almost any ICP System that needs a high flow of dry and pure Nitrogen (> 99,995%) 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 Pressure Swing Adsorption (PSA) technology, Nitrogen is then extracted from a set of filters filled with high-efficiency CMS. After the extracting process, N2 is filtered of remaining particulates down to 0.01 µm, and pressure is regulated electronically to the set value, between 0.5 and 5 bar (7 to 72 psig).
A model with the outflow of max 5 NL/min N2 is available.
Each instrument is equipped with modern, high-performance communication interfaces, including Ethernet, as standard to create a very flexible gas network with local or central control.



APPLICATION TYPES:

- ICP
- 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 18 months.
- N2 is available 24/7 at constant purity. No contamination.
- Independent source of dry N2. Needs only a dry, oil-free compressed air supply and electricity. It can be easily moved around the laboratory.
- Low functioning noise
- Local remote-control control via Ethernet
- Very safe operation, internal leak test, automatic shut-down.
- No handling, No storage, No cylinder rental fee.
- Internal maintenance free.

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MODELS	NITRO ICP-5
LPM Outflow @1013 HPA / 20°C	NITRO ICP-5: 5 LPM
N2 purity	• 99,995% N2 • particulates <0.01µm
Dew Point	-50°C
Outlet Pressure	10 bar (145 psig) maximum

Dimensions cm / in	L: 40.5cm / l: 32.5cm / H: 69cm L: 15.7in / l: 12.5in / H: 27.1in
Net weight (kg/lbs)	45kg/99lbs

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	• Inlet NITRO-ICP: G3/8" outlet • Stainless steel1/4" compression
Power supply	Automatic switching from 90 to 260 VAC, 47 to 63 Hz
Power consumption (max at full flow)	Maximum 300W
Ambient temperature	+10 to +35°C