NITRO ICP

PSA Nitrogen Generator for ICP

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.

This generator is specifically designed for ICP applications and covers the needs of the large majority of ICP users.

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 0.01µm, and pressure is regulated electronically to the set value, between 0.5 and 8 bar (7 to 116 psig), directly adjustable by the user on the 7" touchscreen.

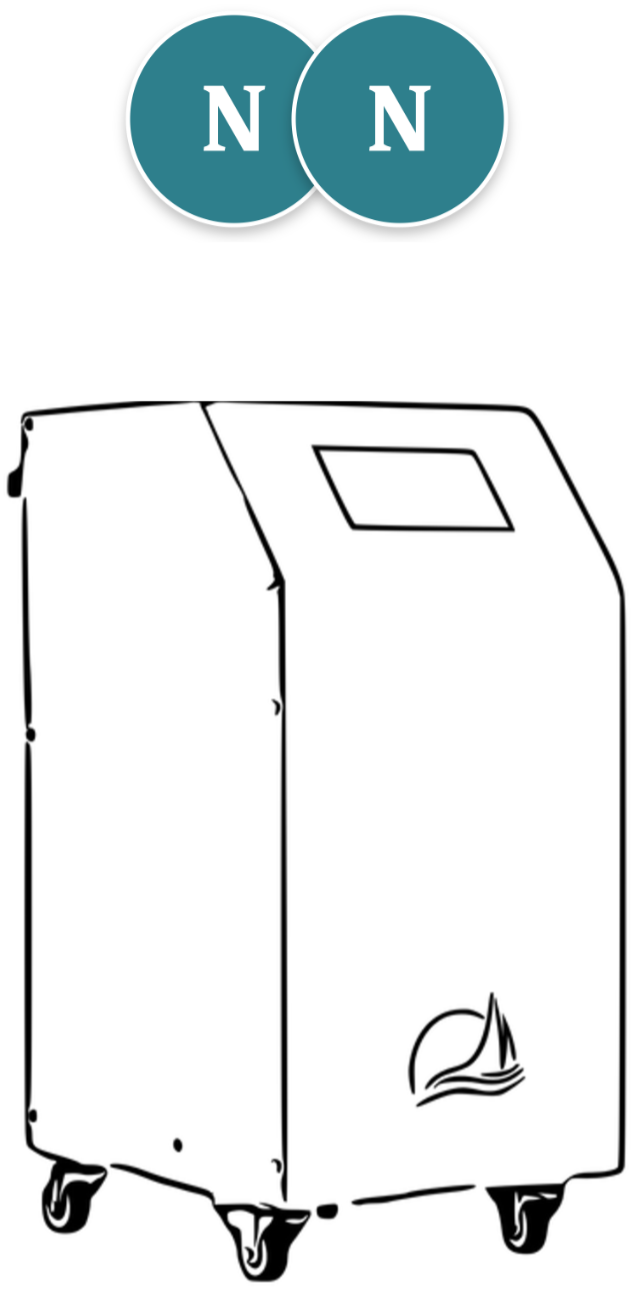
A model with the outflow of max 5 NL/min N2 is available.

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 organic compound trace
- 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 via Ethernet.
- Very safe operation, internal leak test, automatic shut-down.
- No handling, no storage, no cylinder rental fee.
- Internal maintenance free and zero consumables.

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MODELS	NITRO ICP-5
N2 Outflow @1013 / 20°C	NITRO ICP-5: 5 LPM
N2 purity	99.995% N2
Dew point	-50°C
Outlet Pressure	8 bar (116 psig) maximum
Dimensions cm / in	L: 40.5cm / l: 32.5cm / H: 69cm (15.7in / 12.5in / 27.1in)
Net weight (kg/lbs)	45kg / 99lbs

Input AIR quality	Oil-free, dried compressed Air; DIN ISO 8573-1 class 3, pre-filtered to 5µm at the inlet
Separation process	Pressure Swing Adsorption (PSA)
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 G3/8" · outlet Stainless steel 1/4" compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	Maximum 300W
Ambient temperature	+10 to +35°C