NANO N2

High-Purity Compact Nitrogen Generator

Leman Instruments

DESCRIPTION:

LEMAN Instruments designed the NANO N2 product line of High-Purity Compact Nitrogen Generator to fit almost any type of application that needs an independent supply of pure air close to the consumer, in an elegant, compact laboratory casing that can be stacked into our NANO TOWER or used independently.

Compressed air is first filtered from particulates down to 5µm and dried by a static dryer. Based on the field-proven Pressure Swing Adsorption (Smart PSA) technology, Nitrogen is extracted from a set of filters filled with CMS. After the extracting process, N2 passes through a buffer and is filtered of remaining particulates down to 0.1µm; finally, the output pressure is regulated manually from 0.5 to 5 bar.

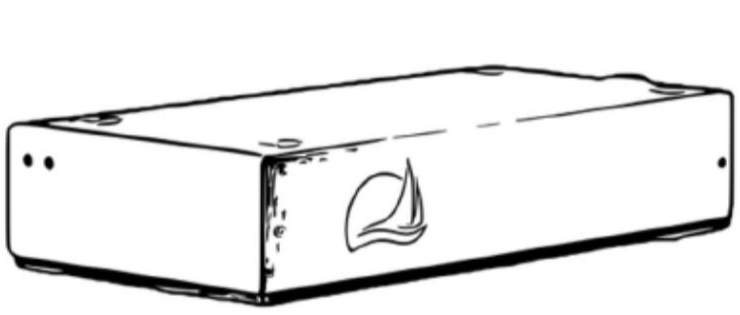
A model with an outflow of up to 250 Nml/min N2 is available.

The NANO N2 concept is to be touched one time once the installation is done, and then this is it. There are no consumables or short-term maintenance to do. It is a simple and extremely robust N2 Generator. It can be stacked into the NANO TOWER combined gas generator solution or used totally independently. With two LEDs, the user will have the information if the system works or not.



APPLICATION TYPES:

- Makeup gas for GC, without organic compound trace
- ICP, ELSD, CORONA, incubators
- Carrier gas for calibrators



FEATURES:

- Reduces in operation costs. Return on investment within 12 months.
- Improves resolution and detection limit. Improves baseline stability.
- Nitrogen available 24/7 at constant purity. No contamination.
- Independent source of N2. Does not require any piping. Can be easily moved around the laboratory.
- Low noise < 40dB(A).
- Long life.
- Extremely robust and easily transportable.
- No handling, no storage, no cylinder rental fee, no yearly consumables.



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MODELS	NANO N2
N2 max Outflow @1013 HPA / 20°C	NANO N2: 0.25 LPM
Output N2 purity	>99.9995% ZA · <10ppm H2O · <1ppm HC · <1ppm CO and CH4 · particulates <0.01µm
Dew Point	-50°C
Output N2 Pressure	0.5 to 5 bar, manually adjustable (72 psig)
Dimensions cm / in	W: 23cm / H: 10cm / D: 43cm (9in / 3.9in / 16.9in)
Net weight (kg/lbs)	8kg / 17lbs

Compressed AIR	Oil-free, dried compressed air; according to DIN ISO 8573-1 class 3
Sound pressure	<40dB(A), measured at 1m
Output fitting	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 150W
Ambient temperature	+5 to +35°C, non-condensing