NITRO65 LS

Ultimate Purity Nitrogen Generator

Leman Instruments

DESCRIPTION:

LEMAN Instruments designed the NITRO65LS product line of Ultimate Purity Nitrogen Generator, the highest grade in the range, to fit any application that needs volume at N6.5 purity 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 carbon molecular sieve. 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 7 bar.

N2 is available 24/7 with constant purity >99.99995% (N6.5) at a -70°C dew point — a full order of magnitude cleaner than the standard grade. Models with outflows of maximum 5 and 10 NL/min N2 are available.

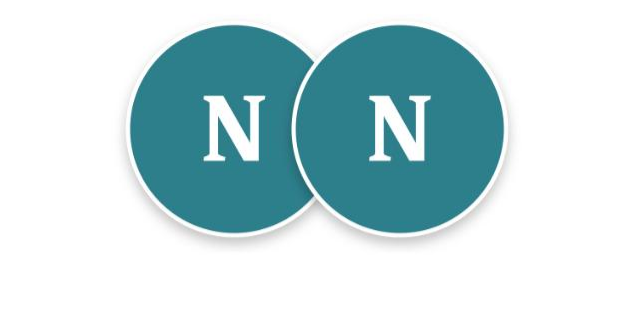
Each instrument is equipped with high performance communication interfaces Ethernet as standard to create a very flexible gas network with local or central control.

Due to the software being focused on safety, automatic regulation, and reliable communications, the NITRO65LS is easy to install, reliable, safe, and pleasant to operate.



APPLICATION TYPES:

- GC make-up gas, free of organic traces
- ICP, ELSD and CORONA detectors
- Incubators and calibrator carrier gas



FEATURES:

- Reduces in operation costs. Return on investment within 15 months.
- The highest grade in the range at volume — several instruments or a whole bench.
- N2 available 24/7 at constant purity. No contamination.
- Independent source of N2. Does not require complex piping. It can be easily moved around the laboratory.
- No handling, no storage, no cylinder rental fee.

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MODELS	NITRO65 LS-5 NITRO65 LS-10
N2 Outflow @1013 / 20°C	NITRO65 LS-5: 5 LPM NITRO65 LS-10: 10 LPM
N2 purity	>99,99995% N2 (N6.5)
Dew point	-70°C
Outlet Pressure	From 0.5 to 7 bar
Dimensions cm / in	W: 55cm / D: 60cm / H: 100cm (21.6in / 23.6in / 39.4in)
Net weight (kg/lbs)	80kg / 176lb

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 display with touch screen 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 90VAC to 260VAC, 47 to 63 Hz
Power consumption	Maximum 350W
Ambient temperature	+10 to +35°C