

NITRO50LS – HIGH FLOW ULTRA, HIGH PURITY & HC FREE NITROGEN GENERATOR



N2

APPLICATIONS

- ✓ Makeup gas for GC
- ✓ ICP, ELSD, CORONA, PID
- ✓ Protection gas for metal processing and cell culture
- ✓ Carrier gas for calibrators

DESCRIPTION

LEMAN-INSTRUMENTS designed the **High Flow Ultra High Purity Nitrogen Generator NITRO 50LS**, to fit almost any type of application which needs independent supply of **Ultra-pure Nitrogen** close to the consumer in laboratory environment.

Nitrogen is extracted from compressed AIR, supplied by an external source, by a set of filters filled up with high performance CMS, organized in cascade (dual step), and based on the field proven Pressure Swing Adsorbtion (PSA) technology. After the extracting process, N2 goes through a hot catalytic oven (Option: Methan CH4 Scrubber), where HC, CH4 and CO are removed and then stored in a buffer and filtered of remaining particulates down to 0.01µm; finally output pressure is regulated electronically to the set value, between 1 and 5 bar. (10 to 72 psig).

Model with outflow of 10, 15 and 20 I/min N2

Each instrument is equipped with high performance communication interfaces USB, RS485 and Ethernet 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 **NITRO 50LS** is easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs. Return on investment within 15 months.
- Improves reproducibility of measurements.
- ✓ Provides High pressure stability.
- ✓ Nitrogen available 24/7 at constant purity. No contamination.
- ✓ Independent source of N2. Requires only compressed Air and power. Can be easily moved around the laboratory.
- Remote control from PC, I-phone and tablet.
- ✓ Low noise
- ✓ No handling, No storage, No cylinder rental fee.

NITRO50LS

SPECIFICATIONS

Models	NITRO50LS-10; NITRO50LS-15, NITRO50LS-20			
N2 Outflow	NITRO50LS-10: 10L/min; NITRO50LS-15: 15L/min			
@ 1013/20°C	NITRO50LS-20 : 20L/min			
	■ > 99.999% N2			
0 () 10 (< -60°C dew point			
Output N2 purity	■ < 10ppm O2			
	■ particulates <0.1µm			
	<0.05ppm HC-CH4 (option)			
Output N2 Pressure	From 1 to 5 bar, adjustable by software. (10 to72 psig)			
Input AIR Quality /	Oil free, dried compressed Air; according to DIN ISO 8573-1 class3 / 4 bar			
Pressure	(50psi) minimum over output pressure Maximum 14 bar (200 psi) EX: For 5bar			
Fiessule	N2 output => 9bar input AIR			
	Through a 4.3" TFT-LCD color display with touch screen, located on the front			
Manual control	panel. Display of major parameters, pressure, functioning status and alarms.			
	Intuitive navigation to functions by menus and sub menus.			
Domoto control	■ USB. RS485 (Mod-Bus) or Display			
Remote control, Communications	■ Trough Ethernet 10/100 network.			
	■ Log book download by USB.			
Sound pressure	< 45 dB(A), measured at 1m			
Ambient Temperature	+10 to +35°C			
Output fitting	Stainless steel 1/4" compression			
Power supply	wer supply From 90VAC to 260 VAC, 50-60Hz, 2 phases			
Power consumption	NITRO50LS-xx : maximum 650W			
Dimensions	W=550mm, H=1500mm, D=600mm with castors / Depend of the model			
Weight (net)	NITRO50LS-10: 140Kg; NITRO50LS-15/20: 180Kg			
Certification	CE			

ORDERING NUMBERS

Model	Article #
NITRO50LS-10	745211
NITRO50LS-15	745212

Model	Article #
NITRO50LS-20	745213
METHAN (CH4) SCRUBBER 3	715093

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