



Leman Instruments

NITRO15L – NITROGEN GENERATOR



N₂

APPLICATIONS

- ✓ Nebulizing, sheath and drying gas for LC / MS
- ✓ Turbo Vaporizer
- ✓ Life science researches
- ✓ Cell cultures
- ✓ Protection gas

DESCRIPTION

LEMAN-Instruments designed the **NITRO15L** product line of **Nitrogen Generator**, to fit almost any type of application which needs a **of dry and pure NITROGEN (> 95%)** in 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 up with high efficiency CMS. After the extracting process, N₂ is filtered of remaining particulates down to 0.1 µm and pressure is regulated electronically to the set value, between 0.5 and 8 bar.(7 to 115 psig).

Models with outflows of **1, 2 and 4 NI/min N₂** are available.

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

Due to the softwares being focused on safety, automatic regulation and intuitive and reliable communications, the **NITRO15L** is easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs. Return on investment within 15 months.
- ✓ Improves resolution and detection limit. Improves baseline stability.
- ✓ Nitrogen available 24/7 at constant purity. No contamination.
- ✓ Independent source of Dry N₂. Needs only dry oil-free compressed Air supply and electricity. Can be easily moved around the laboratory.
- ✓ Low noise
- ✓ Long life
- ✓ No handling, No storage, No cylinder rental fee.

NITRO15L

SPECIFICATIONS

Models	NITRO15L-1, NITRO15L-2, NITRO15L-4
N2 Outflow @ 1013/20°C	NITRO15L-1= 1 NI/min ; NITRO15L-2= 2 NI/min NITRO15L-4= 4 NI/min
Output N2 purity	<ul style="list-style-type: none">▪ Minimum 95%N2▪ < -40°C DP▪ particulates <0.1µm
Output N2 Pressure	From 0.5 to 8 bar, adjustable by software. (7 to 115 psig)
Compressed AIR	Oil free, dried compressed Air; according to DIN ISO 8573-1 class3
Manual control	Through a 4.3" TFT-LCD color display with touchpad, located on the front panel. Display of major parameters, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control	<ul style="list-style-type: none">■ USB. RS485 (Mod-Bus) or Display■ Trough Ethernet 10/100 network■ Log book download by USB.
Sound pressure	< 50 dB(A), measured at 1m
Ambient Temperature	+10 to +35°C
Output fitting	Stainless steel 1/8" compression
Power supply	From 90VAC to 260VAC, 47 to 63 Hz
Power consumption	NITRO15L-x : maximum 250W
Dimensions	W=230mm, H=600mm, D=500mm with castors
Weight (net)	NITRO15L-1 to 4 : 25 to 45 Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
NITRO15L-1	735101
NITRO15L-2	735102

Model	Article #
NITRO15L-4	735103

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