



Leman Instruments

SWISS TECHNOLOGY

NITRO15LS – HIGH FLOW 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 **NITRO15LS** product line of **Nitrogen Generator**, to fit almost any type of application which needs a **high flow of dry 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 7 bar.(7 to 100 psig).

As option, an O₂ monitoring & alarm system could be installed.

Models with outflows of **50, 100, 200, 300, 500 and 750 L/min N₂** are available.

Each instrument is equipped with modern and high performance communication interfaces RS485 and USB as standard, Ethernet as option, 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 **NITRO15LS High flow Nitrogen Generator** are easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs.
Return on investment within 18 months.
- ✓ N₂ 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 functioning noise (< 47dBA)
- ✓ Local remote control from PC; remote control via Internet (option)
- ✓ O₂ content could be monitored
- ✓ Very safe operation, internal leak-test, automatic shut-down.
- ✓ No handling, No storage, No cylinder rental fee.
- ✓ Internal maintenance free.

HIGH FLOW NITROGEN GENERATOR

SPECIFICATIONS

Models	NITRO15LS-50, NITRO15LS-100, NITRO15LS-200, NITRO15LS-300, NITRO15LS-500 and NITRO15LS-750
N2 Outflow @ 1013/20°C	NITRO15LS-50 = 50 L/min ; NITRO15LS-100 = 100 L/min ; NITRO15LS-200 = 200 L/min ; NITRO15LS-300 = 300 L/min ; NITRO15LS-500 = 500 L/min ; NITRO15LS-750 = 750 L/min
Output N2 purity	<ul style="list-style-type: none"> ▪ Minimum 95%N2 ▪ < -40°C DP ▪ particulates <0.1µm
O2 monitoring	O2 content in N2 outflow with alarm (option)
Output Pressure	From 0.5 to 7 bar, adjustable by software. (7 to 100 psig)
Input AIR quality	Oil free, dried compressed Air; according to DIN ISO 8573-1 class3
Input AIR Pressure	6 bar(85 psig) minimum . Maximum 10 bar (140psig)
AIR consumption	Maximum ratio of 2.5 : Air flow consumption / N2 flow generated.
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"> ■ RS485 or USB (Mod-Bus) ■ Trough Ethernet 10/100 network
Inlet & outlet fittings	Inlet NITRO15LS-xx : G1/2" ; outlet steel 3/8"BNP
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	NITRO15LS-xx: max. 150W
Dimensions	NITRO15LS-50 &-100 W=55cm/21.6ins, H=120cm/47.5ins, D=60cm/23.5ins NITRO15LS-200 to-300 W=55cm/21.6ins, H=220cm/85ins, D=80cm/31.5ins NITRO15LS-500 &-750 W=110cm/42ins, H=220cm/85ins, D=80cm/31.5ins
Weight (net)	NITRO15LS-50:75Kg, NITRO15LS-100 : 85Kg, NITRO15LS-200 :142Kg, NITRO15LS-300 :182Kg; NITRO15LS-500 :325Kg, NITRO15LS-750 :430Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
NITRO15LS-50	735105
NITRO15LS-100	735106
NITRO15LS-200	735107
Ethernet interface option	755182

Model	Article #
NITRO15LS-300	735110
NITRO15LS-500	735109
NITRO15LS-750	735108
O2 monitoring +Alarm (option)	755385

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