



Leman Instruments

SWISS TECHNOLOGY

NITRO20L/LC ELSD –NITROGEN GENERATOR FOR ELSD DETECTOR



N₂

APPLICATIONS

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

DESCRIPTION

LEMAN-Instruments designed the **NITRO20L/LC ELSD** product line of **Nitrogen Generator**, to fit almost any ELSD Detectors which needs a **high flow of dry and pure NITROGEN (> 99%)** in laboratory environment.

Dry and clean compressed Air, supplied by an external source if L model or on board compressor system if LC model, 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 5 bar. (7 to 70 psig).

Model with outflow of **10 L/min N₂** are available.

Each instrument is equipped with modern and high performance communication interfaces RS485, USB & 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 **NITRO20L/LC ELSD 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
- ✓ Local remote control from PC; remote control via Internet (option)
- ✓ Very safe operation, internal leak-test, automatic shut-down.
- ✓ No handling, No storage, No cylinder rental fee.
- ✓ Internal maintenance free.

NITRO20L/LC ELSD

SPECIFICATIONS

Models	NITRO20L ELSD-10, NITRO20LC ELSD-10	Ed 23/15
N2 Outflow @ 1013/20°C	NITRO20L ELSD-10 = 10 NL/min; NITRO20LC ELSD-10 = 10 NL/min	
Output N2 purity	<ul style="list-style-type: none">▪ 99%N2▪ particulates <0.1µm	
Output Pressure	From 0.5 to 5 bar, adjustable by software. (7 to 70 psig)	
Input AIR quality	Oil free, dried compressed Air; according to DIN ISO 8573-1 class3 for L model, On Board Oil free compressor for LC model	
Input AIR Pressure	7 bar (110 psig) minimum . Maximum 10 bar (140psig)	
AIR consumption	Maximum ratio of 3: 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 NITRO20L/LC ELSD-10 : G3/8" ; outlet Stainless steel 1/4" compression	
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz if L model 115V or 230V Available for LC model (Plase specify at the order)	
Power consumption	NITRO20L/LC ELSD-10: max. 500W	
Dimensions	W=23cm, H=60cm, D=50cm	
Weight (net)	NITRO20L ELSD-10 = 25Kg NITRO20LC ELSD-10 = 35Kg	
Certification	CE	

ORDERING NUMBERS

Model	Article #
NITRO20L ELSD-10	735301

Model	Article #
NITRO20LC ELSD-10	735302

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