



# Leman Instruments

## NITRO18LCMS -- N2 GENERATOR FOR LC/MS



# N2

### APPLICATIONS

- ✓ **Nebulizing, sheath and drying gas for LC / MS**
- ✓ **Solvent Evaporator**
- ✓ **Life science researches**

### DESCRIPTION

**Leman-Instruments** designed the **NITRO18LCMS** product line of **Nitrogen Generator** to meet the gas flow, purity and pressure requirements of the latest generation of almost LC/MS instruments.

**Functioning Principle:** Partially dried compressed Air is provided by the internal, low noise and oil-free compressor module. (Models without compressor available). Based on the field proven single stage Pressure Swing Adsorption (PSA) technology, Nitrogen is then extracted from AIR by a set of filters filled up with CMS. After the extracting process, N2 is stored in a tank and its pressure is regulated electronically to the set value, between 4 and 7.5 bar.(60 to 110 psig). At the instrument's outlet, N2 is filtered of remaining particulates down to 0.1µm. The NITRO18LCMS line is equipped with a Power Economy function which switches off the compressor and PSA modules when consumption of Nitrogen is reduced or stopped. As option, outflow's O2 content monitoring and alarm.

Models with outflows of **20 & 35L/min** N2 are available.

Each instrument is equipped with high performance communication interfaces (RS485, Ethernet, WLAN) 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 **NITRO18LCMS Nitrogen Generators** are easy to install, reliable, safe and pleasant to operate.

### BENEFITS

- ✓ Reduces in operation costs. Return on investment within 18 months. Integrated Power Economy function.
- ✓ N2 available 24/7 at constant purity. No contamination.
- ✓ Independent source of High Purity N2.
- ✓ Integrated oil-free scroll compressor with Air treatment. Can be easily moved around the laboratory.
- ✓ Low functioning noise
- ✓ Remote control from PC, I-phone and I-pad.(options)
- ✓ Very safe operation, internal leak-test, automatic shut-down, protection against over-temperature.
- ✓ No handling, No storage, No cylinder rental fee.
- ✓ Internal maintenance free. Long life compressor.

# NITRO18LCMS -- N2 GENERATOR FOR LC/MS

## SPECIFICATIONS

<b>Models</b>	<b>NITRO18LCMS-20, NITRO18LCMS-35</b>
N2 capacity @ 1013/20°C	NITRO18LCMS-20= 20 L/min ; NITRO18LCMS-35= 35 L/min;
Output N2 purity	<ul style="list-style-type: none"><li>▪ &gt; 99% N2</li><li>▪ particulates &lt;0.01µm</li></ul>
O2 monitoring	O2 content in N2 outflow with alarm (option)
Output Pressure	From 4 to 7.5 bar, adjustable by software. (60 to 110psig)
Compressed AIR	Supplied by internal Oil free compressor. Automatic drying. Power Economy function. Or by external source
Manual control	Through a 4.3" TFT-LCD color display with touch screen, located on the front panel. Display of major parameters, pressure, functioning status and alarms. Intuitive navigation to functions by menus and sub menus. (option)
Remote control, Communications	<ul style="list-style-type: none"><li>■ USB. RS485 (Mod-Bus) or Display..</li><li>■ Trough Ethernet 10/100 network (option)</li><li>■ Log book download by USB.</li></ul>
Outlet fitting	1/4" compression or BSP 1/4" female
Power supply	100 to 120 VAC 50-60 Hz or 220 to 240VAC, 50 to 60 Hz
Power consumption	NITRO18LCMS-20: max. 800W; NITRO18LCMS-35: max. 800W; NITRO18LCMS-xx without compressor : 150W max
Dimensions	NITRO18LCMS-20 & 35:W=65cm, H=70cm, D=50cm
Weight (net)	NITRO18LCMS-20: 80Kg,
Certification	CE

## ORDERING NUMBERS

<b>Models</b>	<b>Article #</b>
NITRO18LCMS-20-230	75-5212
NITRO18LCMS-20-115	75-5215
NITRO18LCMS-20 without compressor	75-5217
NITRO18LCMS-35-230	75-5222
NITRO18LCMS-35-115	75-5225
NITRO18LCMS-35 without compressor	75-5227
O2 monitoring +Alarm	75-5285

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