



# Leman Instruments

## NITRO STATION 50LC – ULTRA HIGH PURITY NITROGEN GENERATOR WITH or WITHOUT ON BOARD COMPRESSOR



# N<sub>2</sub>

### APPLICATIONS

- ✓ Makeup gas for GC, without organic compound trace.
- ✓ ICP, ELSD, CORONA, incubators
- ✓ Carrier gas for calibrators

### DESCRIPTION

LEMAN Instruments designed the **NITROSTATION50LC** product line of **Ultra High Purity Nitrogen Generator with or without Air compressor**, to fit almost any type of application which needs independent supply of **pure Nitrogen** close to the consumer in laboratory environment.

Compressed Air, supplied by on board compressor is first filtered from particulates down to 5µm and dried by a static dryer. Based on the field proven Pressure Swing Adsorption (PSA) technology, Nitrogen is extracted from a set of filters filled up with CMS. After the extracting process, N<sub>2</sub> passes throughout a hot catalytic chamber (Option: Methan CH<sub>4</sub> Scrubber) to remove the last traces of organic compounds and CO, is then stored in a buffer and filtered of remaining particulates down to 0.1µm; finally output pressure is regulated electronically to the set value, between 0.5 and 5 bar.

Models with outflows of **0.5, 1 and 1.5L/min N<sub>2</sub>** are available in laboratory floor casing and **3, 4, 5 and 8 L/min N<sub>2</sub>** in mini rack laboratory floor casing.

Each instrument is equipped with high performance communication interfaces (RS485, 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 **LEMAN Instruments NITROSTATION 50LC** are 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 N<sub>2</sub>. Does not require any piping. Can be easily moved around the laboratory.
- ✓ Remote control from PC, I-phone and I-pad.
- ✓ Low noise compressor
- ✓ Long life compressor with power economy function.
- ✓ No handling, No storage, No cylinder rental fee.

# NITROSTATION 50LC

## SPECIFICATIONS

<b>Models</b>	<b>NITRO STATION 50L/LC-500, NITRO STATION 50L/LC -1000, NITRO STATION 50L/LC -1500, NITRO STATION 50L/LC-3000, NITRO STATION 50L/LC-4000, NITRO STATION50L/LC-5000 NITRO STATION50L/LC-8000</b>
N2 Outflow @ 1013/20°C	NITROSTATION50LC-500 = 0.5 NI/min ; NITROSTATION50LC-1000= 1 NI/min NITROSTATION50L/LC-1500= 1.5 NI/min NITROSTATION50L/LC-3000= 3 NI/min NITROSTATION50L/LC-4000= 4 NI/min NITROSTATION50L/LC-5000= 5 NI/min NITROSTATION50L/LC-8000= 8 NI/min
Output N2 purity	<ul style="list-style-type: none"> <li>▪ &gt; 99.999% N2</li> <li>▪ &lt; -60°C dew point</li> <li>▪ &lt; 10ppm O2</li> <li>▪ particulates &lt;0.1µm</li> <li>▪ &lt;0.05ppm HC-CH4 (option)</li> </ul>
Output N2 Pressure	From 0.5 to 5 bar, adjustable by software. (7 to 72psig)
Compressed AIR	Supplied by internal silent oil free compressor
Manual control	Through a 4.3" TFT-LCD color display with touchpad, located on the front panel. Display of major parameters, pressure, functioning status and alarms. Intuitive navigation to functions by menus and sub menus.
Remote control, Communications	<ul style="list-style-type: none"> <li>■ USB. RS485 (Mod-Bus) or Display</li> <li>■ Trough Ethernet 10/100 network</li> </ul>
Sound pressure	< 55 dB(A), measured at 1m
Ambient Temperature	+5 to +35°C
Environnement	ONLY for indoor laboratory use
Output fitting	Stainless steel 1/8" compression for low flow units, 1/4" for higher flows.
Power supply	90VAC to 120 VAC, 60 Hz or 220 to 250 VAC 50-60 Hz
Power consumption	NITROSTATION50LC-x: maximum 750W
Dimensions	W=22cm, H=54cm, D=52cm with castors(bench) / W=55cm, H=70cm, D=80cm (floor)
Weight (net)	NITROSTATION50LC-x: 32Kg to 150Kg
Certification	CE

## ORDERING NUMBERS

Model	Article #
NITROSTATION50LC-500	745201
NITROSTATION50LC-1000	745203
NITROSTATION50LC-1500	745205
NITROSTATION50LC-3000	745206
NITROSTATION50LC-4000	745207

Model	Article #
NITROSTATION50LC-5000	745208
NITROSTATION50LC-8000	745209
METHAN (CH4) SCRUBBER 1	715091
METHAN (CH4) SCRUBBER 2	715092

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