



Leman Instruments

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



N₂

APPLICATIONS

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

DESCRIPTION

LEMAN Instruments designed the **NITROSTATION ULTRA LC** 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 **ultra 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, N₂ passes throughout a hot catalytic chamber 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 **250 and 500 NmL/min N₂** are available in 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 ULTRA LC** 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 N₂. 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 ULTRA LC

SPECIFICATIONS

Models	NITRO STATION ULTRA LC-250, NITRO STATION ULTRA LC-500,
N2 Outflow @ 1013/20°C	NITROSTATION ULTRA LC-250 = 250 Nml/min ; NITROSTATION ULTRA LC-500 = 500 Nml/min
Output N2 purity	<ul style="list-style-type: none">▪ > 99.9999% N2▪ < -75°C dew point▪ < 1 ppm H2O▪ particulates <0.1µm▪ <0.05ppm HC-CH4
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">■ USB. RS485 (Mod-Bus) or Display■ Trough Ethernet 10/100 network
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	NITROSTATION ULTRA LC-x: maximum 750W
Dimensions	W=22cm, H=54cm, D=52cm with castors(bench)
Weight (net)	NITROSTATION ULTRA LC-x: 32Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
NITROSTATION ULTRA LC-250	745201

Model	Article #
NITROSTATION ULTRA LC-500	745208

LEMAN - INSTRUMENTS SAS

Archamps Technopole, 60 Avenue Marie-Curie
F – 74160 ARCHAMPS

info@leman-instruments.com

Telephone: +33 4 50 39 49 22

www.leman-instruments.com