



Leman Instruments

NITRO STATION 50RC – ULTRA HIGH PURITY NITROGEN GENERATOR WITH 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 **NITROSTATION50RC** product line of **Ultra High Purity Nitrogen Generator with integrated Air compressor**, to fit almost any type of application which needs independent supply of **HC free pure Nitrogen** close to the consumer in an elegant 19" casing with full color display and touchpad.

Compressed Air 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, 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 **100, 200, 500 and 1000 Nml/min N₂** are available.

Each instrument is equipped with high performance communication interfaces USB and Ethernet(Opt) to create a very flexible gas network with local or central control.

Due to the softwares being focused on safety, automatic regulation and intuitive and reliable communications, the **NITROSTATION 50RC** is easy to install, reliable, safe and

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.
- ✓ Low noise compressor < 55dB(A).
- ✓ Long life compressor with power economy function.
- ✓ No handling, No storage, No cylinder rental fee.

NITROSTATION 50RC

SPECIFICATIONS

Models	NITRO STATION 50RC-100, NITRO STATION 50RC -200, NITRO STATION 50RC -500, NITRO STATION 50RC-1000
N2 Outflow @ 1013/20°C	NITROSTATION50RC-100 = 0.1 NI/min ; NITROSTATION50RC-200= 0.2NI/min NITROSTATION50RC-500= 0.5NI/min ; NITROSTATION50RC-1000= 1 NI/min
Output N2 purity	<ul style="list-style-type: none"> ▪ > 99.999% N2 ▪ HC < 0.05ppm, CO&CH4 < 0.05ppm ▪ < -60°C dew point ▪ particulates <0.1µm
Output N2 Pressure	From 0.5 to 5 bar, adjustable by software. (7 to 72psig)
Compressed AIR	Supplied by internal oil free compressor
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"> ■ Through 2 potential free relay contacts (I/O), ■ USB. RS485 (Mod-Bus) or Display ■ Trough Ethernet 10/100 network (option) ■ Log book download by USB.
Sound pressure	< 55 dB(A), measured at 1m
Ambient Temperature	+10 to +35°C
Output fitting	Stainless steel 1/8" compression
Power supply	From 90VAC to 260VAC, 47 to 63 Hz
Power consumption	NITROSTATION50RC-x : maximum 750W
Dimensions	W=483mm/19ins, H=132mm/5.2ins (3U), D=520mm/21ins
Weight (net)	NITROSTATION50RC-100 & -200 : 29Kg; NITROSTATION50RC-500 & -1000 : 32Kg;
Certification	CE

ORDERING NUMBERS

Model	Article #
NITROSTATION50RC-100	725211
NITROSTATION50RC-200	725213
NITROSTATION50RC-500	725215
NITROSTATION50RC-1000	725218

Model	Article #
4.3" Display with touchpad (Option)	725289
Ethernet Interface option	725281
RS485 interface option	725280

LEMAN - INSTRUMENTS SAS

Archamps Technopole, 219 rue Laszlo Biro
F – 74160 ARCHAMPS

info@leman-instruments.com

Telephone: +33 4 50 39 49 22

www.leman-instruments.com