

NITRO STATION 50LC – 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

PEUS-Instruments designed the **NITROSTATION50LC** product line of **Ultra High Purity Nitrogen Generator with Air compressor**, to fit almost any type of application which needs independent supply of **HC free pure Nitrogen** close to the consumer in laboratory environment.

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 **0.5, 1 and 1.5L/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 softwares being focused on safety, automatic regulation and reliable communications, the **PEUS-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 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 < 50dB(A)).
- ✓ Long life compressor with power economy function.
- ✓ No handling, No storage, No cylinder rental fee.





NITRO STATION 50LC

SPECIFICATIONS

Models	NITRO STATION 50LC-500, NITRO STATION 50LC -1000, NITRO STATION 50LC -1500.
N2 Outflow @ 1013/20°C	NITROSTATION50LC-500 = 0.5 NI/min ; NITROSTATION50LC-1000= 1 NI/min NITROSTATION50LC-1500= 1.5 NI/min
Output N2 purity	<ul style="list-style-type: none"> ▪ > 99.999% N2 ▪ HC < 0.05ppm, CO&CH4 < 0.05ppm ▪ < -40°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	ON-OFF power switch, buzzer and Bi-color LED for functioning status+alarms
Remote control	<ul style="list-style-type: none"> ■ Through 2 potential free relay contacts (I/O), ■ RS485 (Mod-Bus), USB. ■ Trough Ethernet 10/100 network (option) ■ Trough WLAN network, with PC, I-Phone, I-Pad (option) ■ Log book download by USB.
Sound pressure	< 50 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	NITROSTATION50LC-x : maximum 750W
Dimensions	W=220mm, H=540mm, D=500mm with castors
Weight (net)	NITROSTATION50LC-x : 32Kg
Certification	CE

ORDERING NUMBERS

Model	Article #
NITROSTATION50LC-500	745201
NITROSTATION50LC-1000	745203
NITROSTATION50LC-1500	745205

Model	Article #
RS485 interface option	745280
WLAN Interface option	745282
Ethernet Interface option	745281

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