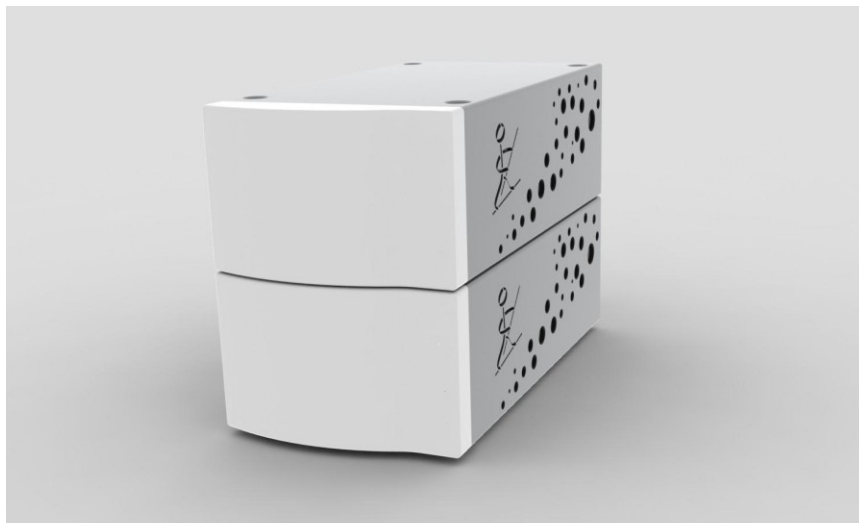


NITRO50L – ULTRA HIGH PURITY NITROGEN GENERATOR MODULES



N₂

APPLICATIONS

- ✓ Makeup gas for GC, without organic compound trace
- ✓ ICP, ELSD, incubators

DESCRIPTION

PEUS-Instruments designed the **NITRO50L** product line of **Ultra High Purity Nitrogen Generator** modules, to fit almost any type of application which needs 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 then 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.

N₂ is finally filtered of remaining particulates down to 0.1µm and pressure is regulated electronically to the set value, between 0.5 and 5 bar. (7 to 72 psig).

Models with outflows of **0.1, 0.5 and 1 L/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 NITRO50L Ultra High Purity Nitrogen Generator** modules are easy to install, reliable, safe and pleasant to operate.

BENEFITS

- ✓ Reduces in operation costs.
Return on investment within 2 years.
- ✓ Improves resolution and detection limit. Improves baseline stability.
- ✓ Provides High pressure stability.
- ✓ Nitrogen available 24/7 at constant purity. No contamination.
- ✓ Independent source of organic compound free pure N₂. Needs only dry oil-free compressed Air supply and electricity. Can be easily moved around the laboratory.
- ✓ Stackable casing for low footprint gas generator network assembly.
- ✓ Remote control from PC, I-phone and I-pad.
- ✓ No handling, No storage, No cylinder rental fee.
- ✓ Internal maintenance free.





ULTRA HIGH PURITY NITROGEN GENERATOR MODULES

SPECIFICATIONS

Models	NITRO50L-100, NITRO50L-500 and NITRO50L-1000.
N2 Outflow @ 1013/20°C	NITRO50L-100= 100 ml/min; NITRO50L-500 = 500 ml/min ; NITRO50L-1000= 1000 ml/min
Output N2 purity	<ul style="list-style-type: none"> ▪ > 99.9995% N2 ▪ < 0.05 ppm HC ▪ particulates <0.01µm
Output Pressure	From 0.5 to 5 bar, adjustable by software. (7 to 72psig)
Input AIR quality	Oil free, dried compressed Air; according to DIN ISO 8573-1 class3
Input AIR Pressure	3 bar(42 psig) minimum over outlet pressure. Maximum 10 bar (145psig)
Manual control	ON-OFF power switch
Remote control	<ul style="list-style-type: none"> ■ By PEUS-Instruments Gas Network Controller, (communication by RS485), maximum distance to module : 100m ■ 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.
Input and output fittings	Stainless steel 1/4" compression
Power supply	Automatic switching from 90VAC to 260VAC, 47 to 63 Hz
Power consumption	NITRO50L-x : maximum 350W
Dimensions	W=210mm/8.3ins, H=275mm/10.8ins, D=360mm/14.2ins
Weight (net)	NITRO50L-x :25Kg (55bs)
Certification	CE

ORDERING NUMBERS

Model	Article #
NITRO50L-100	735200
NITRO50L-500	735201
WLAN Interface option	735281

Model	Article #
NITRO50L-1000	735204
Ethernet Interface option	735282

PEUS- INSTRUMENTS GmbH

Advanced engineering and reliable products from Germany

Max-Roth-Strasse 1
D – 76571 GAGGENAU, GERMANY
order@peus-instruments.com

Telephone: +49 7225 9636 3800
Telefax : +49 7225 9636 3899
www.peus-instruments.com