

NITRO30L – NITROGEN GENERATOR MODULES



N₂

APPLICATIONS

- ✓ Nebulization gas for ELSD, CAD
- ✓ Protection gas for cell culture
- ✓ Carrier gas for calibrators

DESCRIPTION

PEUS-Instruments designed the **NITRO30L** product line of **Nitrogen Generator** modules, to fit almost any type of application which needs 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 is 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 **1, 2 and 4** 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 NITRO30L 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 reproducibility of measurements.
Provides High pressure stability.
- ✓ Nitrogen available 24/7 at constant purity. No contamination.
- ✓ Independent source of 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.





NITROGEN GENERATOR MODULES

CHARACTERISTICS

Models	NITRO30L-1, NITRO30L-2, NITRO30L-4.
N2 Outflow @ 1013/20°C	NITRO30L-1 = 1L/min ; NITRO30L-2= 2 L/min NITRO30L-4 = 4 L/min
Output N2 purity	<ul style="list-style-type: none"> ▪ > 99.9% N2 ▪ < 200 ppm H2O (-35°C DP/-30°F DP) ▪ particulates <0.1µm
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	1.5 bar(20 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	NITRO30L-x : maximum 120W
Dimensions	W=210mm/8.3ins, H=135mm/5.3ins, D=360mm/14.2ins , stackable
Weight (net)	NITRO30L-x :12.5Kg (27.5lbs)
Certification	CE, UL

ORDERING NUMBERS

Model	Article #
NITRO30L-1	735001
NITRO30L-2	735002
WLAN Interface option	735081

Model	Article #
NITRO30L-4	735004
Ethernet Interface option	735082

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