

Product Information

NITROX UHP LC/MS Nitrogen Generators

domnick hunter NITROX LC/MS Nitrogen Generators are specially designed to meet the gas flow, purity, and pressure requirements of LC/MS. By providing a continuous supply of clean, dry, 99.5% pure nitrogen, they eliminate the need for expensive, hazardous, cumbersome, labor-intensive gas cylinders. Both models are compatible with atmospheric pressure chemical ionization (APCI) and electrospray ionization (ESI) interfaces.

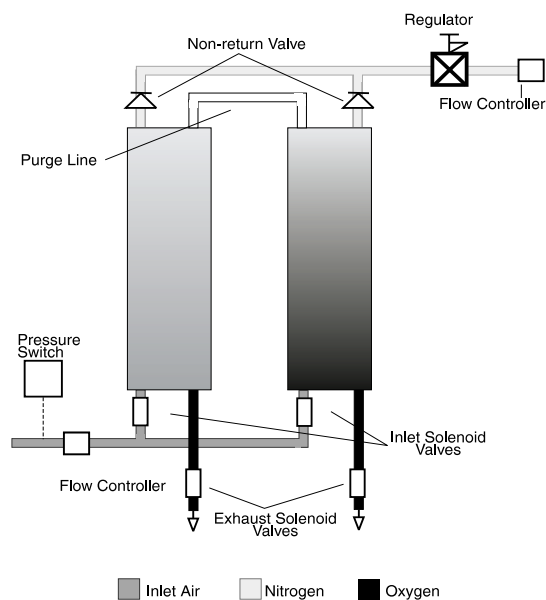
These generators employ pressure swing adsorption technology to produce a continuous supply of high-purity nitrogen. An oil-free air compressor is integral to Model 12; use Model 18 with your current supply of oil-free compressed air. Either model delivers filtered compressed air (8.5bar/125psig) to a bed of carbon molecular sieve, which selectively removes oxygen and other contaminants. Two adsorbent beds alternate between purification and regeneration modes, ensuring a continuous supply of nitrogen at specified purity levels.

Features and Benefits

- Service color indicator on each filter housing
- Supplies the relatively high gas volumes required by LC/MS instruments
- Safer and more convenient than high pressure cylinders
- Eliminates the need for expensive UHP nitrogen
- Compatible with APCI and ESI interfaces



NITROX LC/MS Nitrogen Generator Schematic



Specifications

- Input Air Pressure:** Model 12: integral compressor
 Model 18: 8.5bar/125psig
- Nitrogen Output:** Model 12: 12L/min
 Model 18: 18L/min
- Output Pressure:** 7bar/100psig
- Output Oxygen:** <0.5%
- Connections:** 1/4" Swagelok®
- Power Requirements:** 110VAC, 50-60 Hz, 550W (Model 12) or 50W (Model 18)
- Dimensions:** Model 12: 33 x 14 x 27" / 84 x 36 x 67cm
 Model 18: 33 x 14 x 18" / 84 x 36 x 46cm
- Weight:** Model 12: 190lbs / 86kg
 Model 18: 165lbs / 75kg

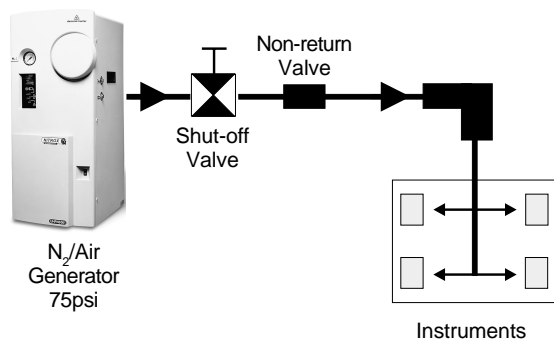
Installation:

Recommended System Layouts

Pipework Specifications

It is recommended that all connecting pipework is either copper or stainless steel. For models UHP0550/1, UHPN0750/1 and UHPA0600/1 the min. pipe diameter should be 1/8". All other models must be connected to a minimum of 1/4" diameter pipework.

Installation with Back-up Supply



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Installation Procedure

1. Locate generator in the position it will normally be sited. We recommend that the generator be sited as close to the application as possible, but do not connect gas supply pipework to generator. Refer to system layout and pipework material recommendations.
2. For compressor models UHPN1501, UHPN2501, UHPN5001, UHPA3001, remove transit bolts and place in the inside pocket of the door.
3. Remove blanking plug(s) from the outlet port(s) on the side of the generator and store in the door pocket. For models UHPN0550/1, UHPN0750/1 and UHPA0600/1 an optional 1/8" Swagelok® adaptor is supplied. For all other models a 1/4" Swagelok adaptor is supplied.
4. For non-compressor models only connect a suitable compressed air line to the generator. For compressed air specification, see the operational manual.
5. Connect the mains lead to the electrical connector on the rear of the generator and connect to a suitably rated power supply, (230V or 110V) ensuring that an earth connection exists (where required).
6. Note green "mains" light is illuminated. (If the light does not illuminate, refer to the 'Fault Finding Guide' in the operational manual.)

Ordering Information:

domnick hunter LC/MS Nitrogen Generators

Manufactured in a rigorous ISO 9001 quality system; CE approved.

One year parts and labor warranty from domnick hunter.

DESCRIPTION	CAT. NO.
NITROX UHP LC/MS Nitrogen Generator, Model 12	27766-U
NITROX UHP LC/MS Nitrogen Generator, Model 18	27767-U
4000 Hour Filter Kit (both units)*	27781-U

Kit Includes:

- Replacement compressor filter element
- Exhaust silencer filter element
- Coalescing filter element

* **Maintenance Schedule:** Unit should be serviced every 4000 hours. There is a service meter on the unit and if 3600 hours are exceeded a light will indicate that service is needed.

An electronic version of the operational manual is available upon request. Please contact our Technical Service Department, phone: 800-359-3041, email: techservice@sial.com to receive a copy.

Trademarks

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