NITROX UHP LC/MS Nitrogen Generators

donnick 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

Non-return Valve
Shut-off Valve
N/Air Generator 75psi

Instruments

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.

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