NITROX UHP Air/Nitrogen Generators
With Integral Oil-Free Air Compressor

NITROX Air/Nitrogen Generators provide a continuous supply of clean, dry, high-purity nitrogen, or clean, high-purity air. These generators employ pressure swing adsorption technology to produce a continuous supply of high-purity gas. An oil-free air compressor delivers filtered compressed air (7bar/1015psig) to a bed of carbon molecular sieve, which selectively removes oxygen, water vapor, and other contaminants. The adsorbent bed alternates between purification and regeneration modes, ensuring product nitrogen meets specified purity levels. A storage reservoir ensures a continuous supply of nitrogen. Alternatively, the compressed air can be delivered to a bed of activated alumina, to remove water vapor and other contaminants. The adsorbent bed alternates between purification and regeneration modes, and a storage reservoir ensures a continuous supply of pure gas.

Benefits
• Safer and more convenient than high pressure cylinders
• Ideal for a crowded laboratory

NITROX Nitrogen Generator Schematic

Specifications
- Nitrogen Output: Model 0601: 600cc/min
  Model 3001: 3000cc/min
- Oxygen Content: <10ppm
- Pure Air Output: Model 0601: 1500cc/min
  Model 3001: 3000cc/min
- Output Air Quality: ISO 8573.1 Class 1.2.1 Dirt, Water, Oil
- Output Pressure: 5bar/73psig
- Connections: Model 0601: 1/8” Swagelok®
  Model 3001: 1/4” Swagelok
- Power Requirements: 110VAC, 50-60 Hz,
  250W (Model 0601) or 300W (Model 3001)
- Dimensions: Model 0601: 33 x 14 x 18” / 84 x 36 x 46cm
  Model 3001: 33 x 14 x 26” / 84 x 36 x 67cm
- Weight: Model 0601: 79lbs / 36kg
  Model 3001: 1875lbs / 85kg
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

![Diagram of N/Air Generator with Shut-off Valve and Non-return Valve]

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 Air/Nitrogen Generators**

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

One year parts and labor warranty from domnick hunter.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
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<tbody>
<tr>
<td>NITROX UHP Air/Nitrogen Generator, Model 0601</td>
<td>27763-U</td>
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<tr>
<td>NITROX UHP Air/Nitrogen Generator, Model 3001</td>
<td>27764-U</td>
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<tr>
<td>4000 Hour Filter Kit (both models)*</td>
<td>27778-U</td>
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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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