NITROX UHP Zero Air Generators

domnick hunter NITROX Zero Air Generators employ a catalytic oxidation system to produce a continuous supply of air that is virtually free of hydrocarbons, including methane. After incoming compressed air is filtered to remove oil, water, and particles, it is passed over a heated platinum catalyst that converts methane and oxygen in the air to carbon dioxide and water. If the hydrocarbon content of the input air is less than 10ppm (as methane), the residual hydrocarbon concentration is less than 0.1ppm (as methane). A high efficiency 0.01 micron filter downstream of the catalyst ensures further removal of particles from the product stream.

\[
\text{CH}_4 + 2\text{O}_2 \xrightarrow{\Delta} \text{CO}_2 + 2\text{H}_2\text{O}
\]

**Features and Benefits**
- Service color indicator on each filter housing
- LED amber ready lights shows when unit is completely operational
- Low power usage
- Easy to wall mount
- Safer and more convenient than high pressure cylinders
- Proprietary lower temperature catalyst gives longer life for catalyst and heater
- Consistent gas purity ensures flat GC baseline
- Simple installation and both units can be wall mounted to save bench space
- Proprietary catalyst operates at lower temperatures than competing technologies giving longer life of catalyst and heater
- Unit has both a power indication light and an amber ready light to indicate the unit is ready
- All filters have auto drain vents

**Specifications**
- **Min/Max Inlet Pressure:** 1.5bar/20psig / 8.5bar/125psig
- **Max Input Hydrocarbons:** 10ppm (as methane)
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- **Air Output:** Model 10: 1000cc/min
  - Model 35: 3500cc/min
- **Output Hydrocarbons:** <0.1ppm (as methane)
- **Particles:** <0.01µm
- **Connections:** 1/4" Swagelok®
- **Power Requirements:** 110VAC, 50-60 Hz, 80W
- **Dimensions (H x W x D):** 12 x 9 x 17" / 30 x 23 x 43cm
- **Weight:** 19lbs / 8.5kg
- **Compressor:** Non-Oil Sealed
- **Maximum Inlet:** THC 100 ppm
- **Warm up Time:** 45 Minutes (LED amber ready light)

**Product Information**

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**Ordering Information:**

**domnick hunter Zero Air Generators**
Manufactured in a rigorous ISO 9001 quality system;
CE approved.
One year parts and labor warranty from domnick hunter.

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<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
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<tbody>
<tr>
<td>NITROX UHP Zero Air Generator, Model 10</td>
<td>27758-U</td>
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<tr>
<td>NITROX UHP Zero Air Generator, Model 35</td>
<td>27759-U</td>
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<tr>
<td>Filter Element, Inlet (8000 hours)</td>
<td>27774-U</td>
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<tr>
<td>Filter Element, Outlet (8000 hours)</td>
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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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