

Product Information

NITROX UHP Hydrocarbon-Free Nitrogen (Zero Nitrogen) Generator With Integral Oil-Free Air Compressor

This domnick hunter NITROX nitrogen generator employs pressure swing adsorption technology to produce a continuous supply of hydrocarbon-free nitrogen. An integral oil-free air compressor delivers filtered compressed air (7bar/101psig) to one of two beds of carbon molecular sieve, which selectively removes oxygen, water vapor, carbon dioxide, and hydrocarbons. A heated catalyst then reduces the hydrocarbons in the nitrogen stream to less than 0.1ppm (as methane). The two adsorbent beds alternate between purification and regeneration modes, ensuring a continuous supply of nitrogen at specified purity levels.

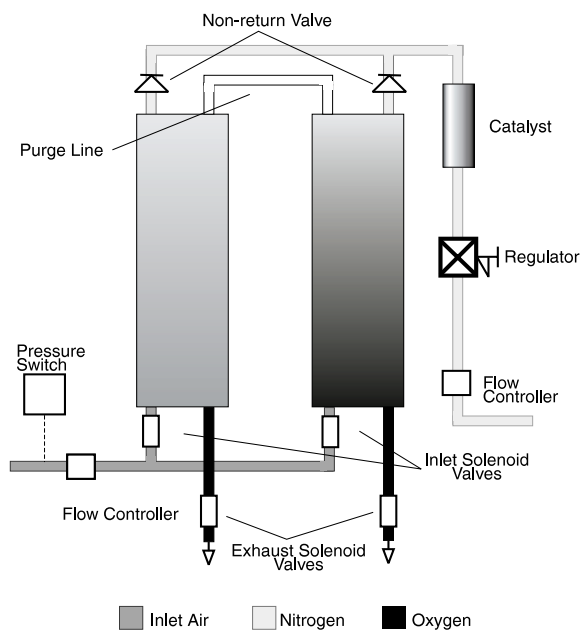
Features and Benefits

- Service color indicator on each filter housing
- Safer and more convenient than high pressure cylinders
- Integral oil-free compressor ensures continuous input of high quality nitrogen, independent of in-house compressed air supply
- Relative to UHP nitrogen, hydrocarbon-free nitrogen ensures a consistently flat baseline, for highly accurate analyses



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NITROX Nitrogen Generator Schematic



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Specifications

- Nitrogen Output:** 1000cc/min
- Typical Output Pressure:** 5bar/73psig
- Output Oxygen:** <10ppm
- Output Hydrocarbons:** <0.1ppm (as methane)
- Connections:** 1/4" NPT
- Power Requirements:** 110VAC, 50-60 Hz, 350W
- Dimensions (H x W x D):** 33 x 14 x 18" / 84 x 36 x 46cm
- Weight:** 101lbs / 46kg

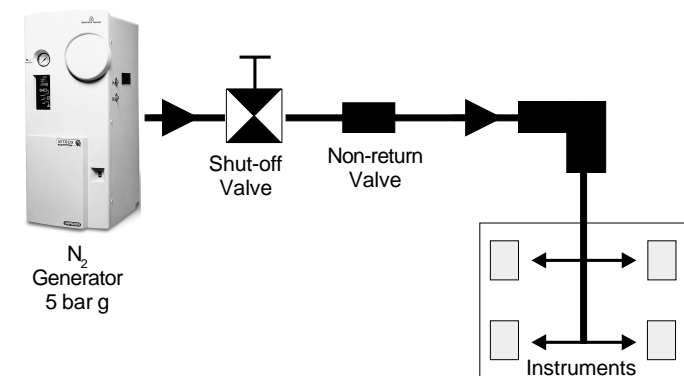
Installation:

Recommended System Layout

Pipework Specifications

It is recommended that the nitrogen outlet connecting pipework be either copper or stainless steel and have a minimum diameter of 1/8" tube. For units without internal compressors it is recommended that the air inlet connecting pipework be either nylon or copper tube and have a minimum diameter of 1/4" tube.

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. Remove blanking plug from the nitrogen outlet port and air inlet port on units without internal compressor. Store plug(s) in the door pocket. An optional 1/8" Swagelok® supplied and should be fitted to the nitrogen outlet port. For units without internal compressor an optional 1/4" Swagelok is supplied and should be fitted to the air inlet port.
3. Non-compressor model only; connect a suitable compressed air line to the generator. For compressed air specification, see the operational manual.
4. Connect the mains lead to the electrical connector on the rear of the generator and connect to a suitably rated power supply, (110V or 230V) ensuring that an earth connection exists.
5. 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 CO₂ Hydrocarbon-Free Nitrogen Generator

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

One year parts and labor warranty from domnick hunter.

DESCRIPTION	CAT. NO.
NITROX UHP Hydrocarbon-Free Nitrogen Generator, Model 1001	27765-U
4000 Hour Filter Kit*	27778-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

dh, domnick hunter, NITROX – domnick hunter limited
Swagelok – Crawford Fitting Co.

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