

# NITROX UHP Gas Generators

## CO<sub>2</sub> Free Air

**domnick hunter** CO<sub>2</sub> removal purifiers eliminate the need for high pressure air cylinders in the laboratory. **domnick hunter** CO<sub>2</sub> removal purifiers are ideal for applications such as FT-IR purge, NMR, GC flame gas, laser purging and rheometer supply. The units purify an existing compressed air supply to provide CO<sub>2</sub>-free instrument quality air with a dewpoint of less than -70°C PDP (-100°F) and no particulate above 0.01 micron.

Using proven pressure swing adsorption (PSA) technology, the units feature automatic regeneration and integral pre and post filtration and ensure total reliability by providing totally clean, dry air with a CO<sub>2</sub> level of <1ppm. All **domnick hunter** gas generators are designed and manufactured within a rigorous ISO9001 quality system, are certified to CE and are fully year 2000 compliant.

## Standard Features

- **CO<sub>2</sub> removal to <1ppm**
- **Fully automatic operation and regeneration**
- **OIL-X<sub>PLUS</sub> pre and post filtration**
- **Fully year 2000 compliant**
- **Meets the requirements of CE**

## Benefits and Savings

- **Improved instrument performance**

Purging an FT-IR spectrometer with CO<sub>2</sub>-free air improves signal-to-noise ratio and eliminates noise from the infra-red spectrum
- **Increased laboratory efficiency**

A constant, uninterrupted gas supply of guaranteed purity eliminates interruption of analyses to change cylinders and reduces the amount of instrument re-calibrations required
- **Lower running costs**

Producing CO<sub>2</sub>-free air from an existing compressed air supply is significantly cheaper than using cylinder supplies
- **Simple installation**

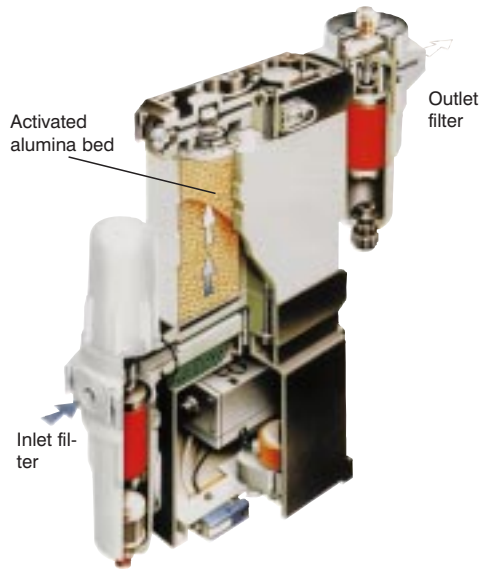
Gas generators can be installed in the laboratory, eliminating the need for long gas lines from cylinders secured elsewhere



**domnick hunter**

# Technical Specifications

## NITROX CO<sub>2</sub> removal purifier



The technology used to produce a supply of totally clean, dry, CO<sub>2</sub>-free air is pressure swing adsorption (PSA).

Based on **domnick hunter's** proven **PNEUDRI** technology, the technique uses two beds of activated alumina to remove CO<sub>2</sub> and moisture from a supply of compressed air. The pair of beds alternately switches between purification and regeneration modes to ensure continuous operation.

The CO<sub>2</sub> removal purifiers include **domnick hunter OIL-X<sub>PLUS</sub>** pre and post filtration to ensure total air quality.



### Technical Specifications

	CO2RP015	CO2RP140	CO2RP280	CO2RP850
<b>Outlet Flow Rate Based on 7barg (100psig) Inlet Pressure</b>	1.5l/min	14l/min	28l/min	85l/min
<b>Total Air Inlet Flow Required</b>	4.0l/min	26l/min	51l/min	155l/min
<b>Inlet/Outlet Connections</b>	G1/4	G1/4	G1/4	G1/2

### All Models

<b>CO<sub>2</sub> Content</b>	<1ppm
<b>Pressure Dewpoint at 7barg (100psig)</b>	-70°C (-100°F)
<b>Non-methane Hydrocarbons</b>	<0.003ppm
<b>Particulate</b>	<0.01micron
<b>Max Inlet Air Pressure</b>	10.5barg 152psig
<b>Min Inlet Air Pressure</b>	4barg 60psig
<b>Pressure Drop at Max Flow</b>	300mbar 5psig
<b>Electrical Supply</b>	230V/1ph/50-60Hz 110V/1ph/50-60Hz
<b>Power Rating</b>	3.6W

### Dimensions

	CO2RP015	CO2RP140	CO2RP280	CO2RP850
<b>Height</b>	380mm 15in	470mm 18in	710mm 28in	1,020mm 40in
<b>Width</b>	310mm 12in	310mm 12in	310mm 12in	420mm 17in
<b>Depth</b>	90mm 4in	90mm 4in	90mm 4in	150mm 6in
<b>Weight</b>	8kg 18lb	10kg 22lb	12kg 27lb	36kg 80lb

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