NITROX UHP CO₂-Removing Pure Air Generators

In domnick hunter NITROX CO₂-Removing Pure Air Generators, activated alumina removes both water vapor and carbon dioxide. Two adsorbent beds alternate between purification and regeneration modes, ensuring continuous production of air at specified purity levels. High efficiency pre-desiccant and post-desiccant filtration ensures total air quality. Model 015 CO₂-Removing Pure Air Generator can be used for TOC applications, Models 140, 280, and 850 are suitable for FTIR.

Applications
- FTIR purge
- NMR
- Laser purge
- Rheometer supply

Features and Benefits
- Service color indicator on each filter housing
- CO₂-free air improves signal-to-noise ratio, eliminates noise from infra-red spectrum
- Safer and more convenient than high pressure cylinders
- Lower costs with a NITROX generator and an existing compressed air supply, compared to using cylinders
- Three stages of filtration provide particulate down to 0.01 micron and hydrocarbons to 0.003 ppm. Odor free air
- Simple installation and units can be floor or bench mounted

NITROX CO₂ Removal Purifier

Specifications
- Air Input Required:
  - Model 015: 4.0L/min
  - Model 140: 26L/min
  - Model 280: 51L/min
  - Model 850: 155L/min
- Min/Max Inlet Pressure: 4bar/60psig / 10.5bar/152psig
- Air Output:
  - Model 015: 1.5L/min (7bar/100psig inlet pressure)
  - Model 140: 14L/min
  - Model 280: 28L/min
  - Model 850: 85L/min
- Output CO₂:< 1ppm
- Non-Methane Hydrocarbons:< 0.003ppm
- Particles:< 0.01µm
- Dewpoint at 7bar: -70°C (-100°F)
- Connections: 1/4" Swagelok®
- Power Requirements: 110VAC, 50-60 Hz, 3.6w
- Dimensions:
  - Model 015: 15 x 12 x 4" / 38 x 31 x 9cm
  - Model 140: 18 x 12 x 4" / 47 x 31 x 9cm
  - Model 280: 28 x 12 x 4" / 71 x 31 x 9cm
  - Model 850: 40 x 17 x 6" / 102 x 42 x 15cm
- Weight:
  - Model 015: 18lbs / 8kg
  - Model 140: 22lbs / 10kg
  - Model 280: 27lbs / 12kg
  - Model 850: 80lbs / 36kg
- Maximum Inlet: THC 100 ppm
- Compressor: Non-Oil Sealed
### Ordering Information:

**domnick hunter CO₂-Removing Pure Air Generators**

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

One year parts and labor warranty from domnick hunter.

#### DESCRIPTION | CAT. NO.
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NITROX UHP CO₂-Removing Pure Air Generator  
Model015 | 27754-U
Model140 | 27755-U
Model280 | 27756-U
Model850 | 27757-U
8000 Hour Service Kit for Models 015, 140, 280 | 27772-U
8000 Hour Service Kit for Model 850 | 27771-U

**Important Note:** These units do not remove methane. Methane-free air requires a zero air generator – please see our current catalog.

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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