GeniSys NitroGenerator

TEXEL Products

Laboratory Gas Generators

GeniSys NitroGenerator

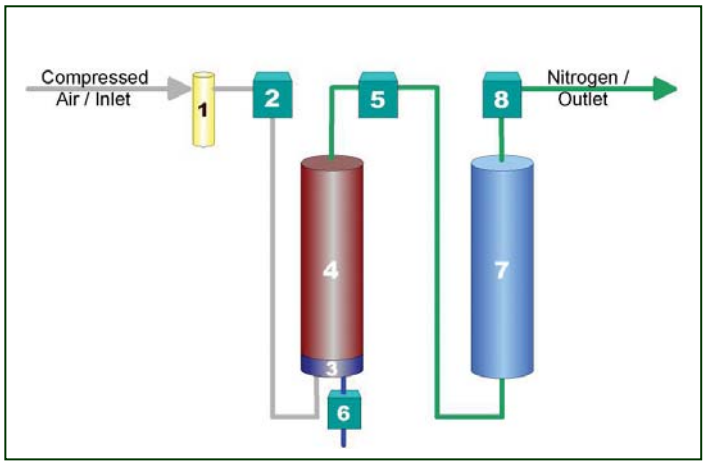
The award-winning NitroGenerator is a flexible and expandable state-of-the-art Nitrogen Generator that produces flows from 1 to 10 l/min at very high purity.

Overview

The GeniSys NitroGenerator is a discrete, efficient, modular system that produces high purity nitrogen only when you need it – all you need is compressed air. The NitroGenerator uses PSA technology for superior performance and reliability. A range of models is available to cover most applications. When selecting a system, consideration should be given to the required flow rate, purity and delivery pressure. The larger units are fitted with castors to allow them to be manoeuvred easily into position below a bench top. All of the units in the range are built on a modular design to allow the capacity to be expanded upon.

Process Description

NitroGenerator has a built-in standby system, which ensures the most efficient use of electricity and the systems internal components. Compressed air enters the generator via a 0.01-micron filter [1] that removes contaminants and bulk moisture via an integrated auto drain. When the control system assesses that more nitrogen is required, solenoid valve [2] is opened and the pressure is allowed to build in the column [4] containing Carbon Molecular Sieve (CMS) and a residue moisture catcher [3]. This sieve adsorbs the oxygen and leaves the dry nitrogen free to flow into the reservoir [7]. After this point, the Nitrogen is allowed to flow to the application via pressure and flow regulators [8].



Features and Benefits

- Flow Rates from 1 to 10 litres/min
- High Purity nitrogen up to 99.9995%
- Very compact
- Light weight construction
- Stand-by Mode
- PSA technology
- Output Pressure 80 PSIg (5.4 Barg)
- Low power requirement
- Easy Installation
- Simple maintenance

Typical Applications

- Gas Chromatography (GC)
- Total Organic Carbon (TOC)
- Vessel Leak Detection
- Flame Ionisation Detector (FID)
- GC-MS
- Laser Beam Optics Purging
- ICP Spectrometer

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Technical Specifications

Model:	NG1	NG2	NG3	NG5	NG10
Flow l/min	1	2	3	5	10
Purity (% N_2)	Up to 99.9995% (5 ppm residual O_2)				
Dewpoint (C PDP)	-40				
Inlet Pressure (Barg / PSIg)	Purity dependent (7 Barg minimum)				
Outlet Pressure (Barg / PSIg)	5.4 / 80				
Method	Carbon Molecular Sieve – Pressure Swing Adsorption				
Power (W)	8.1				
Voltage	Plug-in transformer (supplied) converts voltages from 110-230VAC to 24VDC				
Depth (mm / ins)	143 / 5.6	286 / 11.3	439 / 17.3	439 / 17.3	439 / 17.3
Height (mm / ins)	645 / 25.4	645 / 25.4	768 / 30.2	768 / 30.2	768 / 30.2
Width (mm / ins)	288 / 11.3	288 / 11.3	380 / 15.0	380 / 15.0	760 / 30.0
Weight (kg / lbs)	14.5 / 32.0	29 / 63.9	73 / 161	73 / 161	146 / 322
Connection Ports	Female ¼" Rc (PT) suitable for BSPT, PT, R & Unithread)		Female ¼" BSPP		
Control Panel (h x w x d, wt)	280mm(11.4 ins) x 300mm(12.2 ins) x 125mm(5.1 ins), 3kg(6.6 lbs)		Internal		

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