

GeniSys NitroGenerator-LCMS



TEXOL
Products

Laboratory Gas Generators

GeniSys NitroGenerator - LCMS

The GeniSys NG-LCMS range is an extension to the award-winning NG range, with flows from 15 to 60 l/min. It is the ideal solution for larger capacity applications such as LCMS mass spectrometry.

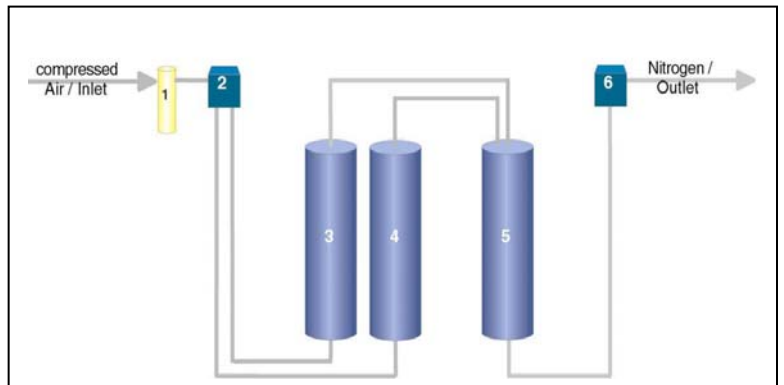


Overview

Based on the award-winning NitroGenerator, the GeniSys NG-LCMS is a discrete, efficient, modular system that produces high purity nitrogen only when you need it – all you need is compressed air. The NG-LCMS 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 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

The NG-LCMS 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, the solenoid valves [2] opens allowing air to enter the Carbon Molecular Sieve (CMS) column [3]. After a set duration the plc controller within the control system exhausts the first column and operates another valve to pressurise the second CMS column [4]. This cycle repeats whilst the applications requires more nitrogen. The CMS adsorbs the oxygen and leaves the nitrogen free to flow into the reservoir [5] and on to the application via pressure and flow regulators.



Features and Benefits

- Flow Rates from 15 to 60 litres/min
- Purity Range 99 to 99.9%
- Compact Lightweight construction
- Stand-by Mode
- PSA technology
- Output Pressure 100 PSIG (7 Barg)
- Low power requirement
- Easy Installation
- Simple maintenance

Typical Applications

- Mass Spectrometry
- Food Packaging
- Photonics
- Wave Soldering
- Blanketing and Purging
- Pharmaceutical and Medical
- Drying and Shield Gas

Technical Specifications

Model:	NG-LCMS15 H	NG-LCMS20 M	NG-LCMS30L	NG-LCMS30 H	NG-LCMS40 M	NG-LCMS60L
Flow l/min	15	20	30	30	40	60
Purity (% N ₂)	99.9	99.5	99.0	99.9	99.5	99.0
Dewpoint (C PDP)	-40					
Inlet Pressure (Barg / PSig)	10 / 147					
Outlet Pressure (Barg / PSig)	6.8 / 100					
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)	439/ 17.3	439/ 17.3	439/ 17.3	439/ 17.3	439/ 17.3	439/ 17.3
Height (mm / ins)	768 / 30.2	768 / 30.2	768 / 30.2	768 / 30.2	768 / 30.2	768 / 30.2
Width (mm / ins)	380/ 15	380/ 15	380/ 15	760 / 30	760 / 30	760 / 30
Weight (kg / lbs)	73 / 161	73 / 161	73 / 161	146 / 322	146 / 322	146 / 322
Connection Ports	Female 1/4" BSPP					

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