

# GeniSys



**TEXOL**  
Products

Gas Generators

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# GeniSys

The GeniSys Nitrogenerator is the latest development in the Texol range and takes gas generation to a new level.

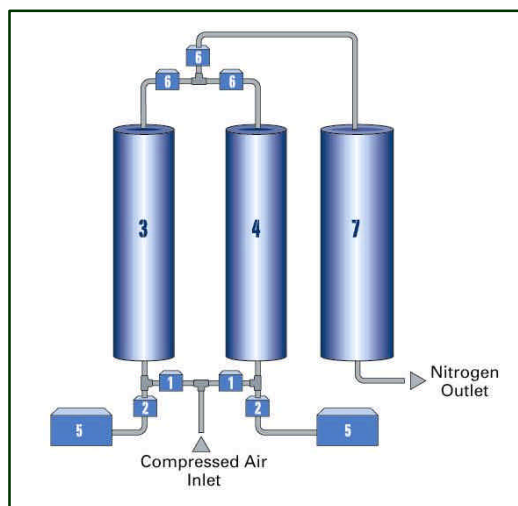


## Overview

The GeniSys NitroGenerator is an advanced range of nitrogen generators evolved from Texol's standard NG and NG-LCMS range. Designed in consultation with end users, GeniSys is a true "plug and play" modular system incorporating advanced performance, ergonomics and aesthetics. The low height means that the generator will fit below a standard size lab bench.

## Process Description

The GeniSys compressor produces dry and filtered compressed air. The clean, oil-free air enters the generator and passes through a set of process control valves (1) and into the PSA columns (3,4), which adsorb the oxygen at elevated pressure. The high purity nitrogen gas flows through the columns, past uni-directional valves and flow controls (6) before being collected in the N<sub>2</sub> reserve vessels (7). The trapped oxygen is expelled from the columns through exhaust valves (2) and silencers (5). The cycle then repeats. An integral controller monitors gas demand and only produces gas when required.



## Features and Benefits

- Designed for the laboratory environment
- Capable of supplying multiple instruments
- Hi-Flow Configuration:
  - Purities (95-99.9%),
  - Flows up to 60 litres/min
- Lo-Flow Configuration:
  - Purities (99.99-99.9995%),
  - Flows up to 10 litres/min
- Low noise and vibration
- Plug & Play Modular System
  - GeniSys compressor mates with generator unit
- Low maintenance

## Typical Applications

- Mass Spectrometry
- Gas Chromatography
- Purging/Blanketing
- Pharmaceutical
- Medical
- Photonics

## Technical Specifications

GeniSys N2 Generator	
Depth (mm)	750
Width (mm)	540
Height (mm)	775
Weight (kg)	130
Volt / Freq. (V / Hz)	24V DC
Power (W)	100
Purity	
Hi-Flow Model	95 – 99.9%
Lo-Flow Model	99.99 – 99.9995%
Flow Rate	
Hi-Flow Model	Up to 60 litres/min
Lo-Flow Model	Up to 10 litres/min
Outlet Pressure (Barg / PSig)	6.8 / 100
Dewpoint (C PDP)	-40 typical
Method	PSA
Connection Port	3/8" Rc (BSPT)

Dedicated GeniSys Compressor	
Depth (mm)	750
Width (mm)	540
Height (mm)	775
Weight (kg)	123
Volt / Freq. (V / Hz)	230 / 50
Power (kW)	2.5
Control Mode	Active
Outlet Pressure (Barg / PSig)	10 / 147

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