



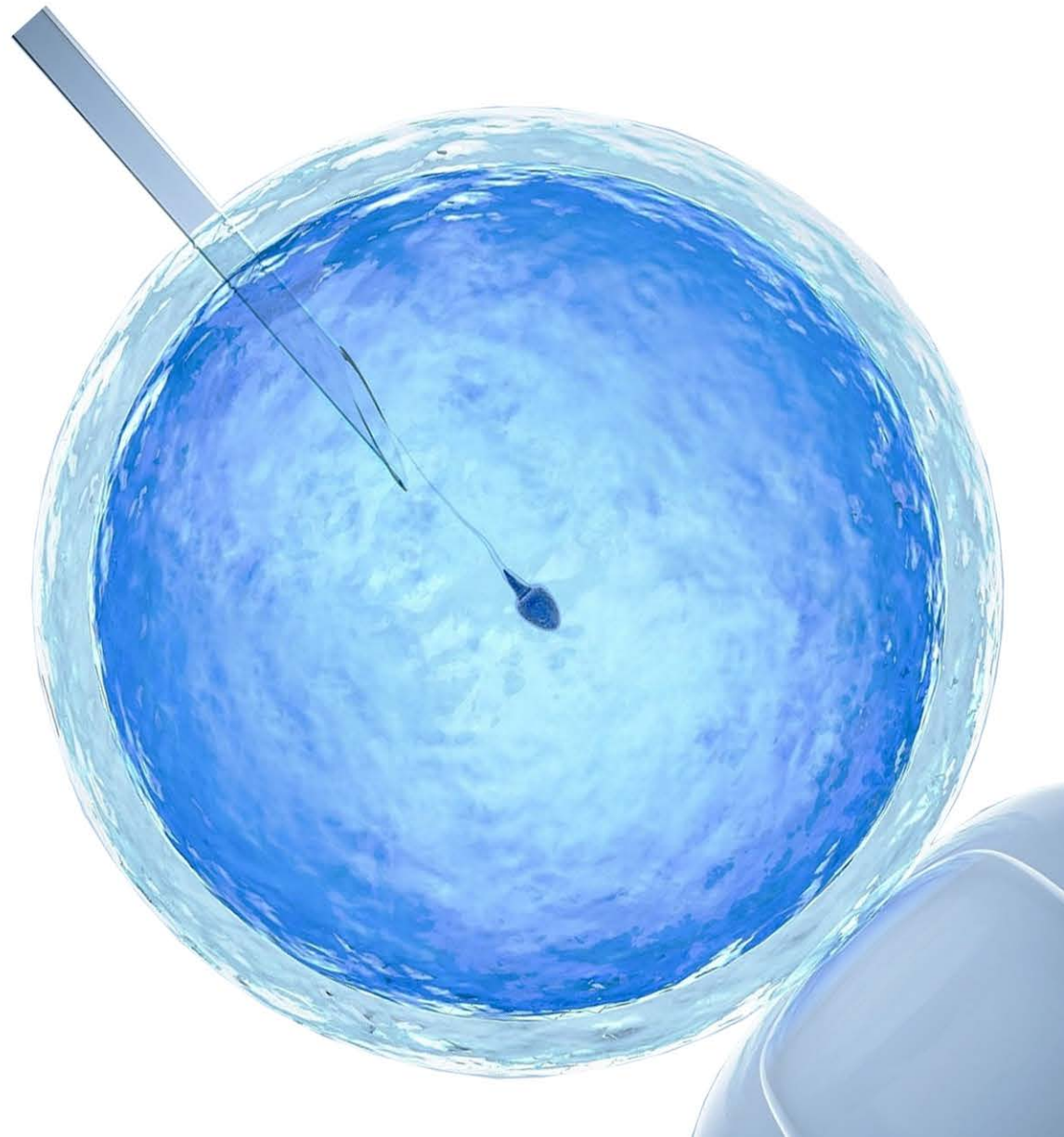
APEX

GASGEN

DESCRIPTION

After over 11 years working with customers in the IVF and Stem Cell research market we have developed this Nitrogen Generator system based on the needs and performance required for such delicate work.

Our generator boasts 99.9995% purity of nitrogen on demand our units are unique to the sector with additional internal storage and capacity for external storage as well. Some of the latest introductions include the option to have an oxygen analyser for up to the minute records of purity being provided to the incubators and other equipment. Each of our systems include the option to pair with an automatic change over unit. These units ensure seamless transition to backup gas supplies in the unlikely event there is a disruption in supply.



FEATURES

Built In Oxygen Analyser (Optional)

Additional Storage Capacity as Standard

Air Pre-filtering & N₂ Post Filtering

Upgraded Sensor Suite

Low Power Requirement

Rapid Start Up

Pressure Swing Adsorption

Easy Installation

Simple & Low Cost Maintenance

Integrated Compressor

Automatic Change Over Unit (Suggested)





BENEFITS

An on-site nitrogen generator provides several benefits over bottled gas:

- Save Money: Reduce monthly use of bottled gas
- Save Space: A nitrogen generator requires less space than storing gas cylinders.
- Improve Workplace Safety: Employees don't have to move heavy gas cylinders, nor do you have to store high-pressure tanks.
- Quality Monitoring - Using integrated oxygen analyser combined with regular servicing nitrogen quality can be verified continually.



OVERVIEW

Each high purity nitrogen generator in the series can be run from an external source of compressed air or can be built with an integral compressor. Using an external air source air will provide almost silent operation. An integral compressor allows the system to run as a complete stand-alone solution.

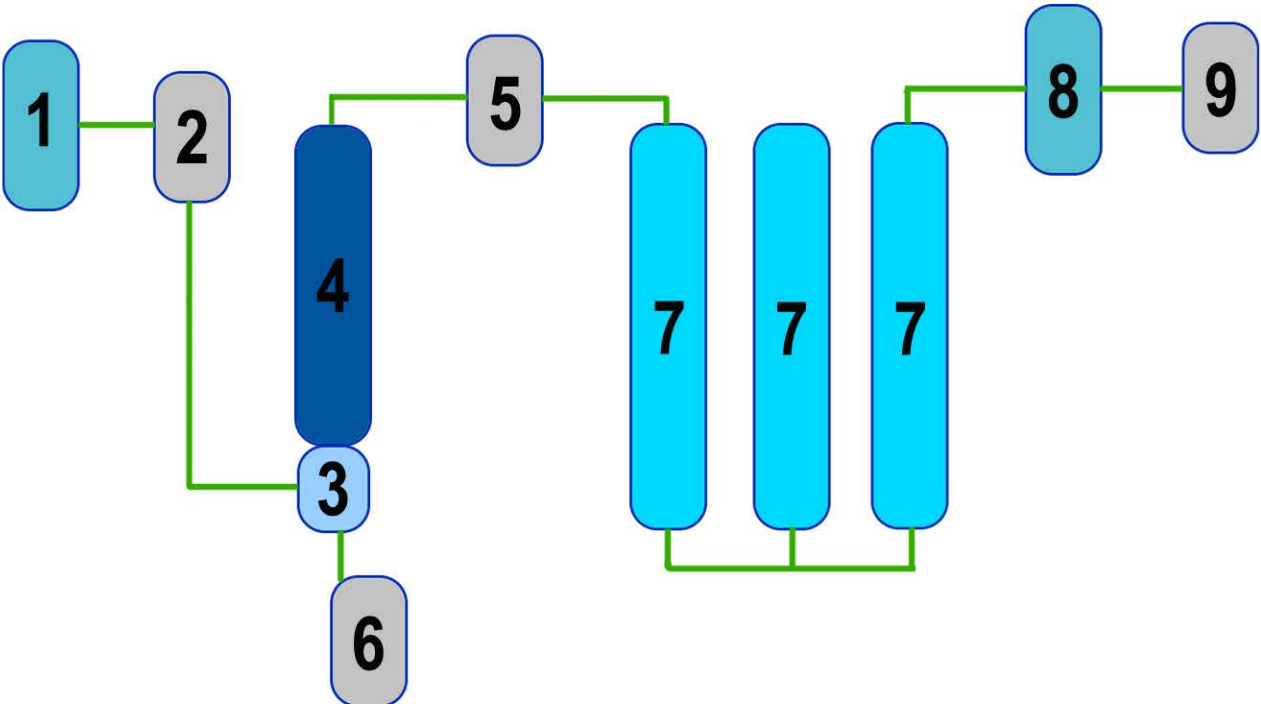
Maintenance of your High Purity Nitrogen Generator is simple with all regular maintenance parts being easily accessible, for peace of mind we offer a service package. Currently, this is only available to UK customers. For our international customers we have a wide network of service partners.





HOW IT WORKS:

Air from an external source 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 reservoirs [7]. After this point, the Nitrogen is allowed to flow to the application via another 0.01-micron filter [8] and pressure and flow regulators [9].





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