HIGH FLOW NITROGEN GAS GENERATOR SERIE NG6HF

High Flow Nitrogen Gas Generators is one of the best designed PSA Nitrogen Gas Generators available. utilizing the reliable and efficient PSA technique of separating Nitrogen and Oxygen is used to produce high flow Nitrogen Gas for New LCMS applications. The Generator is controlled using the latest in HMI touch screen technology to display the process in real time, inlet/outlet pressures and oxygen level (optional).

Application :

- SAMPLE EVAPORATION
- LC/MS

Benefits and Savings

Increased laboratory efficiency

A constant, uninterrupted gas supply of guaranteed purity eliminates interruptions of analyses to change cylinders and reduces the amount of instrument re-calibrations required.

Improved economy

High flow nitrogen gas produced as standard

Improved safety

Nitrogen produced at low pressure and ambient temperature removes the need for high pressure cylinders

Security of supply

Integral oil free air compressor as an option guarantees continuous gas supply, independent of in house compressed air supply

Simple installation

Gas generators can be installed in the laboratory, on or under a bench, eliminating the need for long gas lines from cylinders secured elsewhere

Standard Features

- **Flow rate : 50L/min**
- **Option:** Integral oil free air compressor
- **Auto start**
- **Alarm display with help menu**
- **Audible alarm sounder**
- **Outlet flow indicator**
- **Trend graphs for QA reporting**
- **Energy saving Mode**
- **Compressor over temperature alarm**
- **Remote access to screen using internet or GSM**

ENERGY SAVING MODE:

Integrated with high and low pressure sensors which permit, when the unit is connected to a buffer vessel, to minimize the running time of the generator by stopping the unit when the buffer vessel is full (and when there is no demand on the production line) and restart when there is a need and when the buffer tank go down to a pre-determine pressure value. Life time of the unit is increased and service intervals are longer than a unit which never stopped running.

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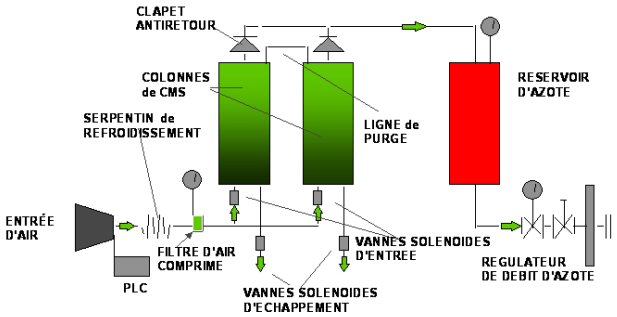
The Nitrogen generator use pressure swing adsorption technology (PSA) to produce pure nitrogen gas.

This technique uses a bed of carbon molecular sieve (CMS) to selectively remove oxygen and other contaminants from atmospheric air. The bed alternates between purification and regeneration modes to ensure continuous nitrogen production. The gas generator is designed to take compressed air at 10 barg from an integral oil free air compressor which is firstly pre filtered. This filtered compressed air stream is then passed to the CMS bed currently in purification mode. Whist passing through the bed, the oxygen, carbon dioxide, moisture and some hydrocarbons are removed from the compressed air, resulting in a product stream of clean, dry, high purity nitrogen gas.



Technical Specifications

Model	NG6/0 HF	NG6/1 HF
Fowrate (L/min)	64	64
Outlet pressure	7-8 bar	
N2 purity	Hydrocarbon free Phathalates none, particles < 0.01 µ, Suspended liquid none	
Air inlet flow rate requirement	173	N/A
Dimensions (H, W, D) mm	725 x 450 x 665	
Weight kg	80	
Inlet / Outlet connections	G 1/4" (BSP) Female	
Electrical Supply	220v a.c. / 1ph / 50Hz or 110v a.c. / 1ph / 50-60Hz	

Technical Data

Ambient Temp range	5-35°C (41-95°F)
Minimum air Inlet Pressure For units without air compressor	8 Bar
Air Inlet Requirement (units without compressor)	Dewpoint: -40°C (-40°F)
	Particulate: <1 micron
	Oil: <0.01 mg/m³

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