

### PRODUCT FEATURES

- 800 & 3000ml/min product versions available
- Version equipped with catalytic reactor for hydrocarbon removal available
- Gas purity of 99.9995% (without the need of additional filters)
- Pressure Swing Adsorption (PSA) technology
- Fastart™ System
- Max pressure 6 Bar (90 PSI)
- Easy to use alpha numeric display
- Maintenance alarm
- Economy mode and standby mode included as standard
- Safety alarm (outlet pressure too low, CMS pressurisation failure)
- Stainless steel tubes, connectors and dryer



### PRODUCT DESCRIPTION:

Nitrogen can be used in a wide range of analytical applications from carrier gases for GC's to an ICP purge gas and also for high flow LC-MS requirements.

The CryoService range of nitrogen gas generators provides a genuine alternative to gas cylinder supply. Unlike gas cylinders, which require continuous changeover, our gas generators can run 24 hours a day if required. Therefore, the return on your investment can be realised within 18 months. Not only do you have increased capacity but you also reduce health and safety risks as there is no need for high pressure storage or potential injuries due to manual handling of cylinders.

By incorporating a number of unique features combined with the latest technology, our nitrogen gas generators should be your number one choice as they provide you with the following benefits: -

**Lower Lifetime Costs** - Certain nitrogen gas generators use membrane technology which degrades over time and only has a guaranteed life of 1 year and results in high ongoing costs. All of our generators use Pressure Swing Adsorption technology that requires no maintenance and also has a minimum 10 year life. Our generators have also been designed to minimise the time taken for general/routine maintenance, with 2,000 hours (replacement filters) and 4,000 hours (compressor change) maintenance limited to only 30 minutes.

All generators are supplied with economy and standby modes to save on your electrical costs and reduce wear on the generator parts. Standby mode is automatic and is activated when gas demand falls.

**User-Friendly** - Pressure and flow rates are clearly displayed on our easy to use electronic display. A unique maintenance option is also displayed to provide prior warning the generator will require maintenance. Our generators also have a number of inbuilt safety alarms advising of the outlet pressure being too low and CMS pressurisation failure. The safety alarms are indicated on the generator display and also through an audible alarm. If the alarm condition is not rectified, then the generator will shut down safely.

**UHP Gas on Demand and Purity Guaranteed** - Unlike other generators, which can take around 3-4 hours to reach UHP nitrogen purity, our nitrogen gas generators can realise UHP purity within 30 minutes through our unique Fastart™ system, improving your productivity and capacity. All of our nitrogen gas generators are supplied with a purity certification of 99.9995%.

**High Performance** - Our hydrocarbon removal (HC) versions provides hydrocarbon removal for the pure air element of the generator. This element of the generator is fitted with a specifically designed platinum-palladium catalytic reactor, which is manufactured in AISI 316 stainless steel. The strong oxidant power of this reactor enables hydrocarbons reduction to lower than 0.1ppm. This in turn guarantees high hydrocarbon removal efficiency with 99% for methane (CH<sub>4</sub>), 99.5% for aromatics (BTX), C3 hydrocarbons and 99.9% for carbon monoxide (CO), hydrogen (H<sub>2</sub>), ethylene and propylene.

0686/03

# CLAIND GAS GENERATOR PRODUCTS

## TECHNICAL DATA

### MECHANICAL DATA

SPECIFICATION	NG 2081	NG 2081HC	NG 2301	NG 2300
Flow Rate	800ml/min	800ml/min	3000ml/min	3000ml/min
Purity	99,9995%	99,9995%	99,9995%	99,9995%
Hydrocarbons Removal	N/A	< 0.1ppm	N/A	N/A
Air Supply	Internal Compressor	Internal Compressor	Internal Compressor	External Compressor
Outlet Pressure	4-6 Bar (60-90 PSI)	4-6 Bar (60-90 PSI)	7 Bar (105 PSI)	7 Bar (105 PSI)
Connection/Outlet	1/8"	1/8"	1/8"	1/8"
Noise Level	<60dB(A)	<60dB(A)	<60dB(A)	<60dB(A)
Height	830mm	830mm	1190mm	1190mm
Width	400mm	400mm	400mm	400mm
Depth	580mm	580mm	800mm	800mm
Weight	62kg	67kg	112kg	112kg

### ELECTRICAL DATA

SPECIFICATION	NG 2081	NG 2081HC	NG 2301	NG 2300
Power Rating	600VA	700VA	850VA	100VA
Electrical Supply	230VAC - 50Hz	230VAC - 50Hz	230VAC - 50Hz	230VAC - 50Hz

### ENVIRONMENTAL DATA

SPECIFICATION	NG 2081	NG 2081HC	NG 2301	NG 2300
Operating Temperature	5°C - 40°C	5°C - 40°C	5°C - 40°C	5°C - 40°C

### ORDERING DATA

#### GENERATORS

MODEL	
LG/NG 2081/110	UHP Nitrogen Generator, 800ml/min, 110V
LG/NG 2081/240	UHP Nitrogen Generator, 800ml/min, 240V
LG/NG 2081 HC/110	UHP Nitrogen Generator, 800ml/min, Hydrocarbons Removal, 110V
LG/NG 2081 HC/240	UHP Nitrogen Generator, 800ml/min, Hydrocarbons Removal, 240V
LG/NG 2081 HC/240/ALARM	UHP Nitrogen Generator, 800ml/min, Hydrocarbons Removal, 240V, Alarm
LG/NG 2300/110	UHP Nitrogen Generator, 3l/min, 110V, No Compressor
LG/NG 2300/240	UHP Nitrogen Generator, 3l/min, 240V, No Compressor
LG/NG 2301/110	UHP Nitrogen Generator, 3l/min, 110V
LG/NG 2301/240	UHP Nitrogen Generator, 3l/min, 240V

#### ACCESSORIES

CODE	
50/001	INSTALLATION KIT FOR HG/AG/NG/ANG
50/003	CONSUMABLE KIT FOR NG2081 & AG2301
50/006	CONSUMABLE KIT FOR NG2301 & LCMS 1
50/111	AUTO CYL SWITCH KIT 1/8" FOR NG/AG/HG
50/113	COMPRESSOR KIT FOR ANG/AG/NG
12/030A	COMPRESSOR KIT FOR NG2301/LC-MS 1