

## 'GEN1' – Laser Nitrogen Gas Generator

'GEN1' is the latest High Pressure Liquid Nitrogen gas Generator from Noblegen Products.

Utilising the reliable and efficient PSA technique of separating Nitrogen and Oxygen is used to produce high quality Nitrogen Gas which is then boosted to 300 bar and stored in cylinder racks for use.

The GEN1 can produce and store up to 240m<sup>3</sup> of nitrogen gas used on applications such as laser cutting where typical gas pressures of 25-40 bar are required with varying flow-rates.



### Features

- PSA nitrogen gas generator designed and manufactured by Noblegen.
- Colour touch screen control.
- Economy when cylinder rack is full.
- Service alarm.
- Oxygen purity sensor with alarm and vent.
- Integrated nitrogen buffer and storage vessels.
- Small footprint.
- Low noise.
- Skid base for ease of shipping and installation.



CYLINDER RACK

### Options

- Internet connectivity
- SMS text messaging
- Additional cylinder rack storage
- Air compressor available
- Repeat display screen

The Noblegen GEN1 high pressure nitrogen gas generator is your reliable and efficient on-site plug and produce laser gas solution. With a small footprint, low power consumption and second to none reliability makes the GEN1 one of the best solutions available on the market. Simply locate the skid, connect the power and compressed air (integrated air compressor available as an option) and press start for the machine to automatically produce high purity nitrogen gas when needed. The nitrogen gas produced at low pressure is then boosted up to 300 bar and stored in standard 12 or 16 cylinder racks ready for use. The high pressure gas can then be regulated down to typically 25-40 bar to feed your laser machine. When the cylinder rack(s) is full the GEN1 automatically switches into economy mode where no air or power is used and re-starts when the cylinder rack(s) volume drops to a predetermined level.

## Specifications

<b>Nitrogen Gas Flow-rate</b>	15m <sup>3</sup> /hr
<b>Nitrogen Gas Purity</b>	<200ppm O <sub>2</sub> *
<b>Nitrogen Storage Pressure</b>	300 bar g
<b>Power Consumption</b>	5.5Kw
<b>Voltage (3Ø + N + E)</b>	380-415v
<b>Compressed Air Consumption</b>	75m <sup>3</sup> /hr @ 8 bar g
<b>Compressed Air Quality</b>	BS1.2.1
<b>Skid Dimensions</b>	1.75m
<b>Skid Weight</b>	1,800Kg
<b>Noise level</b>	<65 dBA
<b>Approximate Cost Per M<sup>3</sup> of N<sub>2</sub></b>	£0.04

N<sub>2</sub> production rate at +25°C and <2,000 metres altitude and at 50Hz (for 60Hz add 20% production rate). For higher altitudes please consult Noblegen for advice.

\*Other flows and purities available on request.

## Options



Additional Storage Racks



Air Compressor Solutions



High Pressure Hoses

UK enquiries to:

MBA Engineering Systems Ltd  
Unit 411 Birch Park  
Thorp Arch Estate  
Wetherby  
LS23 7FG

Tel: 0330 058 8325

Email: [enquiries@mb-eng.co.uk](mailto:enquiries@mb-eng.co.uk)