



# Industrial Nitrogen Gas Generators

## MAXIMUS+ - Intelligent Gas Generators

**'MAXIMUS', Latin for 'Greatest', is the latest Industrial range of PSA Nitrogen Gas Generators from Noblegen Products.**

Utilising the reliable and efficient PSA technique of separating Nitrogen and Oxygen is used to produce high quality Nitrogen Gas at various flows and purities (see performance data).

The Generators are controlled using the latest in HMI touch screen technology to display the process in real-time with continuous monitoring complete with alarms.

Available single or multi-bank to cover any flow requirement, with the new option of incorporating multi-banking in one enclosure (Maximus<sup>2</sup>),



### Features include:-

- Alarm display with help menu
- Outlet flow indicator (%)
- Oxygen Analyser (% and ppm)
- Inlet air dew-point monitor and alarm
- Trend graph for QA reporting
- Energy saving mode (programmable)
- Remote access to Screen using internet or GSM
- Software for all models and types in one screen
- Maintenance records screen with alarm reminder

### Overview

The 'Maximus' Nitrogen Generator range from Noblegen Products is your reliable and efficient alternative to conventional high pressure cylinder and liquid gas supplies. Taking away the on-going costs, safety considerations and transporting of traditional gas supplies, the 'Maximus' Nitrogen systems are some of the most advanced, intelligent and efficient available.

The HMI controller displays in real-time the PSA process, monitors air inlet quality, system pressures and outlet nitrogen purity ensuring you always have the highest quality gas delivered to your application. An onboard flow monitor indicates the % of flow taken (0-100%) showing your overall requirement and efficiency data. If your compressed air supply quality is not within the working limits then the system will alarm and shut-down if necessary protecting the system from permanent damage.



Noblegen is a Wirac Automation Product

### Features

- High Flow Rates.
- HMI Touch Screen .
- Single or Multi Bank.
- Oxygen Analyser.
- Inlet Air Dewpoint & Alarm.
- Network & Remote System Monitoring.
- Compact & Rugged Design.
- Process Displayed on HMI Screen.
- Multi Screen System.
- Auto Setup.
- Access from Front Only, No Rear Access Required.
- Enable or Disable Alarm Shutdown.

### Applications

- Food Packaging.
- Laser cutting.
- Wine Making & Brewing.
- Oil & Gas.
- Pharmaceutical & Laboratory.
- Electronic assembly / Soldering.
- Injection moulding.

### Options

- Hazardous Area Ex Version.
- Customisable Screen.
- Proportional Pressure and flow control for multitask operation.

### NOBLEGEN PRODUCTS

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## MAXIMUS+ - Technical Specification

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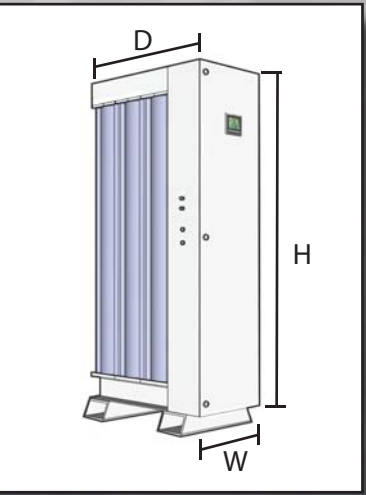
Nitrogen Outlet Flowrate - Nm <sup>3</sup> /hr vs Oxygen Concentration									
Model	10ppm	100ppm	0.1%	0.5%	1.0%	2.0%	3.0%	4.0%	5.0%
MNG102	1.0	1.60	4.5	7.1	8.95	11.0	12.95	14.55	16.15
MNG104	2.0	3.20	9.0	14.2	17.9	22.0	25.9	29.1	32.3
MNG106	3.0	4.8	13.5	21.3	26.7	32.9	38.8	43.6	48.4
MNG108	4.0	6.4	18.0	28.4	35.6	43.9	51.7	58.1	64.5
MNG110	5.0	8.0	22.5	35.4	44.5	54.8	64.6	72.6	80.5
MNG112	6.0	9.6	27.0	42.5	53.4	65.8	77.5	87.2	96.6
MNG116	8.0	12.8	34.1	53.8	67.6	83.3	98.2	110.4	122.4
MNG120	10.0	16.0	41.3	65.1	81.8	100.8	118.8	133.6	148.1

Specification based on 7barg (102psig) air inlet pressure @ 20°-25°C (68°-77°F) ambient air temperature. For inlet pressures and ambient air temperature outside these conditions please contact NobleGen technical department. Please note, the MNG102 comes complete with an internal buffer.

Ambient Temp Range	5-45°C(41-113°F)
Air Inlet Pressure	6 to 16 barg (87 to 232 psig)
Nitrogen Outlet Pressure	5 to 15 barg (72 to 217 psig)
Air Inlet Requirement	Dewpoint: -40°C (-40°F)
	Oil: <0.01 mg/m <sup>3</sup>
	Particulate: <0.1 micron
Electrical Supply	90-264 V A.C. / 1ph
	50-60 Hz
Signal Outlet / Monitoring	Ethernet (RJ45)
Inlet / Outlet Connections	G 1/2" (BSP) female

Other pressures and temperatures available on request

Dimensions & Weights				
Model	Height mm	Width mm	Depth mm	Weight Kg
MNG102	1870	595	650	190
MNG104	1870	595	650	230
MNG106	1870	595	780	350
MNG108	1870	595	910	445
MNG110	1870	595	1040	538
MNG112	1870	595	1170	632
MNG116	1870	595	1480	820
MNG120	1870	595	1740	955



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