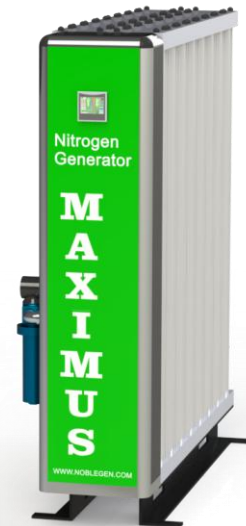


## 'Maximus' - Intelligent Gas Generators

**'Maximus' is the latest range of Nitrogen PSA Industrial Gas Generators from Noblegen Products.**

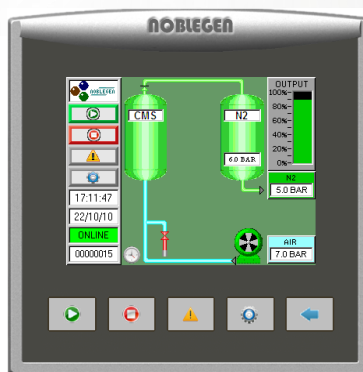
Utilising the reliable and efficient PSA technique of separating Nitrogen and Oxygen is used to produce high quality Nitrogen Gas at various flows and purities (see performance data sheets).

The Generators are controlled using the latest in HMI touch screen technology to display the process in real-time, inlet / outlet pressures, Trend graphs and much more.....



### Features

- Range of Flow-rates
- Air Compressor available
- Compact and Quiet design
- Purity 99.9995% - 95%
- Oxygen Analyser as standard
- Auto-run facility
- Energy saving mode
- Outlet flow indicator (% flow)
- Trend graphs into MS excel
- Alarms with help menu
- Audible alarm sounder
- Remote access via internet



Colour HMI Touch Screen

### Applications

- Pharmaceutical & Laboratory
- General laboratory
- LC/MS
- Fume cupboards
- Food packaging
- Soldering
- Laser Cutting

'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 transportation of traditional gas supplies, the 'Maximus' on-site Nitrogen systems are some of the most advanced and intelligent available. The control system gives the user all the information necessary to ensure an efficient and consistent supply of gas is always available. From the process to flow and alarms, including auto-start / stop function, Trend graphs, service alarm and service records page, there is simply no other laboratory nitrogen system quite like Maximus.

The 'Maximus' is one of the most economical range of nitrogen generators on the market for both purchase price and on-going running / maintenance costs. Together with our unrivalled experience and knowledge of nitrogen gas generators with 1000's running world-wide supported by our national and international partners.

# INDUSTRIAL GAS GENERATORS

## Nitrogen Outlet Flowrate - Nm<sup>3</sup>/hr vs Oxygen Concentration

Model	5ppm	50ppm	100ppm	250ppm	500ppm	0.1%	0.5%	1.0%	2.0%	3.0%	5.0%
MNG104	2.0	3.8	5.5	7.1	8.6	9.0	14.1	17.8	22.0	25.8	32.2
MNG106	3.0	5.8	8.5	10.7	13.0	13.5	21.2	26.6	32.8	38.7	48.3
MNG108	4.0	7.8	11.0	14.3	17.3	18.0	28.3	35.5	43.8	51.6	64.4
MNG110	5.0	9.6	14.0	17.8	21.6	22.5	35.5	44.4	54.7	64.5	80.4
MNG112	6.0	11.5	16.5	21.4	26.0	26.8	42.4	53.5	65.7	77.4	96.5
MNG116	8.0	14.5	21.0	27.1	32.8	34.0	53.7	67.5	83.2	98.1	122.3
MNG120	10.0	17.5	25.3	32.8	39.7	41.2	65.0	81.7	100.7	118.7	148
Air:N <sub>2</sub> ratio	10:1	8:1	6:1	5:1	3.6:1	3.4:1	2.8:1	2.6:1	2.4:1	2.2:1	2.0:1
With PDS	9.5:1	7.7:1	5.6:1	4.6:1	3.2:1	3.0:1	2.5:1	2.3:1	2.1:1	1.9:1	1.8:1

Specification based on 7 barg (102 psig) air inlet pressure @ 20°-25°C (68°-77°F) ambient air temperature. For inlet pressures and ambient air temperature outside these conditions please contact the Noblegen technical department.

## General Specifications

Ambient Temp Range	5-45 °C (41-113°F)
Air Inlet Pressure	7-10 bar g (101.5-145 psi g)
Nitrogen Outlet Pressure*	Up to 9 bar g (130.5 psi g)
Air Inlet Requirement	Dew-point -40 °C (-40 °F) Particulate: <0.1 micron Oil: <0.01 mg/m <sup>3</sup>
Electrical Supply	230v a.c. / 1ph / 50-60Hz 115v a.c. / 1ph / 50-60Hz
Socket Inlet	Gland Entry (MCB) 10A
Communications	Volt-Free Common Alarm
Inlet / Outlet Connections	1" BSPP x 2 / 1/2" BSPP x 2

## PDS ENERGY SAVING



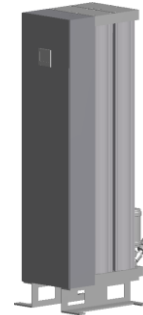
N <sub>2</sub> DEMAND	ENERGY SAVING%
100%	12%
90%	33%
80%	40%
70%	45%
60%	51%
50%	58%
40%	64%
30%	72%
20%	76%
10%	83%

Energy saving relating to compressed air saved

# INDUSTRIAL GAS GENERATORS

## Dimensions (mm) and Weights (kg)

Model	Length	Width	Height	Weight
MNG104	650	600	1870	230
MNG106	780	600	1870	350
MNG108	910	600	1870	445
MNG110	1040	600	1870	540
MNG112	1170	600	1870	635
MNG116	1480	600	1870	820
MNG120	1740	600	1870	960



## Pressure Correction Factors

Bar G	PSI G	CV factor
7.0	101	1.0
7.5	109	1.14
8.0	116	1.21
8.5	123	1.29
9.0	131	1.36
9.5	138	1.43
10.0	145	1.50

## Temperature Correction Factors

°C	°F	Correction
5	41	0.8
10	50	0.9
15	59	0.94
20	68	1.0
25	77	1.0
30	86	0.98
35	95	0.95
40	104	0.90
45	113	0.85

## Options:-

- PDS – Purity Dependant Switching (energy saving)
- Zirconia 0-1,000ppm oxygen sensor and display (chemical sensor standard)
- Modbus communications
- Text messaging



Larger PSA Products Available

**MADE IN BRITAIN** 

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