

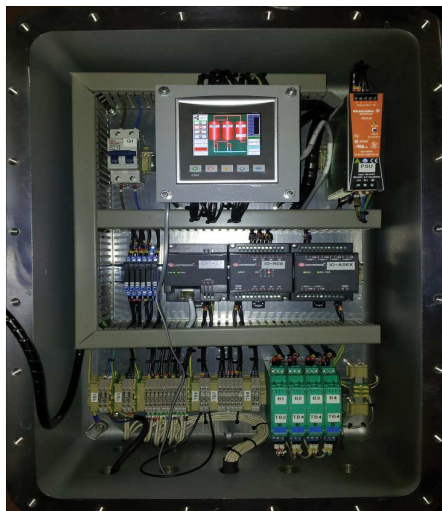
MAXIMUS - Ex Hazardous Area Gas Generators

'MAXIMUS-Ex, is the latest Ex Hazardous Area rated 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.

Utilising an EX d explosion proof electrical control panel, EX rated pilot operated solenoid valves and I.S. instruments to allow use of the system in Hazardous Area locations.



Exd Explosion proof electrical control panel

Features include:-

- Alarm display with help menu
- Outlet flow indicator (%)
- Oxygen Analyser (% and ppm)
- Inlet air dew-point monitor and alarm
- Remote access to Screen using internet or GSM

Hazardous area rating:-

- Zone 1**
- Gas Group II B**
- Temperature: T6**
- ATEX, IEC EX**

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.

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.
- Enable or Disable Alarm Shutdown.

Applications

- Inert gas purging in hazardous area environments

Options

- Off-shore lifting frame
- Container mounted
- skid mounted
- Pulse flow for high flow, low pressure drop

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MAXIMUS - Ex Technical Specification

- 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.
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Nitrogen Outlet Flowrate - Nm ³ /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.

- Applications**
- Inert gas purging in hazardous area environments
- Options**
- Off-shore lifting frame
 - Container mouted skid mounted
 - Pulse flow for high flow, low pressure drop

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 ³
	Particulate: <0.1 micron
Electrical Supply	90-264 V A.C. / 1ph
	50-60 Hz
Signal Outlet / Monitoring	RS232 or Ethernet (RJ45)
Inlet / Outlet Connections	G 1/2" (BSP) female
Hazardous Area Rating	Zone 1, II B, T6

Other pressures and temperatures available on request

Dimensions & Weights				
Model	Height mm	Width mm	Depth mm	Weight Kg
MNG102	1760	550	1140	240
MNG104	1760	550	1140	280
MNG106	1760	550	1320	430
MNG108	1760	550	1500	495
MNH110	1760	550	1680	590
MNG112	1760	550	1860	680
MNG116	1760	550	2040	870
MNG120	1760	550	2220	1020



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