

Apex MNG Series Nitrogen Generators

Our range of Ultra High flow Nitrogen Generators specifically designed to support applications requiring high volumes of Nitrogen.

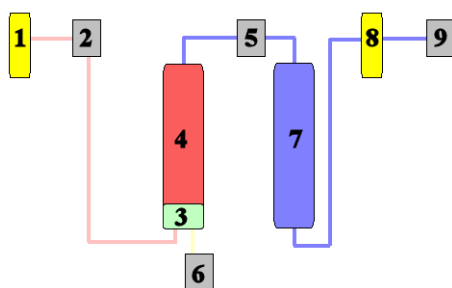
Overview

Utilising Pressure Swing Adsorption technology the MNG series provides ideal performance, efficiency and reliability specifically designed for high demand applications. Ultra High flow rate Nitrogen is delivered as required.

The MNG series provides flexibility to match your system requirements. Each system can deliver a variety of flow and rates and purities to suit your specifications. See below for a table outlining the range each system can provide.

Features and benefits

- Flow Rates of up to 80.5 Nm³/hr
- Stand-by Mode
- Touch screen controls
- PSA technology
- Output Pressure 5 to 16 Barg/72 to 232 psig
- Easy Installation
- Simple maintenance



How it works

Air from an external source enters the generator via a 0.01-micron filter [1] that removes contaminants and bulk moisture via an integrated auto drain. When the control system assesses that more nitrogen is required, solenoid valve [2] is opened and the pressure is allowed to build in the column [4] containing Carbon Molecular Sieve (CMS) and a residue moisture catcher [3]. This sieve adsorbs the oxygen and leaves the dry nitrogen free to flow into the reservoir [7]. After this point, the Nitrogen is allowed to flow to the application via another 0.01-micron filter [8] and pressure and flow regulators [9].

Technical specifications

Nitrogen Output (Nm ³ /hr) vs. Oxygen Concentration									
Model	10ppm	100ppm	0.1%	0.5%	1.0%	2.0%	3.0%	4.0%	5.0%
MNG104	1.98	3.20	9.0	14.2	17.9	22.0	25.9	29.1	32.3
MNG106	2.96	4.80	13.5	21.3	26.7	32.9	38.8	43.6	48.4
MNG108	3.94	6.39	18.0	28.4	35.6	43.9	51.7	58.1	64.5
MNG110	4.93	7.99	22.5	25.4	44.5	54.8	64.6	72.6	80.5

Model	MNG104	MNG106	MNG108	MNG110
Air inlet pressure	6 to 18 Barg/87 to 261 psig			
Air inlet requirements	Dewpoint: -40°C (-40°F) Particulate: <0.1 micron Oil: <0.01 mg/m ³			
Outlet pressure	5 to 16 Barg/72 to 232 psig			
Power	220vac / 1ph / 50Hz or 110vac / 1ph / 50-60Hz			
Depth (mm/inch)	560 / 22	740 / 29	920 / 36	1100 / 44
Height (mm/inch)	1890 / 74.5	1890 / 74.5	1890 / 74.5	1890 / 74.5
Width (mm/inch)	400 / 15.75	400 / 15.75	400 / 15.75	400 / 15.75
Weight (kg/lbs.)	230	350	445	538
Connection ports	Female ½" BSP			

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