

# GEN2MINI-080

## Nitrogen Gas Generator

The GEN2 MINI Nitrogen Generator uses the pressure swing adsorption (PSA) principle to produce a continuous uninterrupted supply of nitrogen gas from clean dry compressed air. It's ultra compact design and range of flow rates and gas purities, make it the perfect generator for a variety of lower flow nitrogen applications.



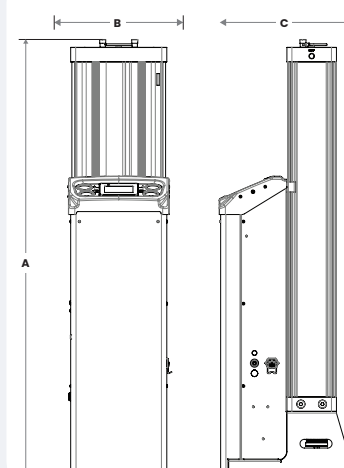
GENERAL CHARACTERISTICS	
Rated capacity @ 95% / 99.5% / 99.999% (Nm <sup>3</sup> /h) <sup>(1)</sup>	6.9 / 2.8 / 0.3
Absorbed power (W)	72
Power supply (VAC/Hz)	100-240 / 50 or 60
OPERATING LIMITS	
Minimum inlet air quality	ISO 8573: 2010 class 2:4:1
Design operating pressure range (barg)	6 to 10
Recommended operating temperature range (°C)	20 to 25
Minimum/maximum ambient temperature (°C) <sup>(2)</sup>	5 / 50
Maximum inlet temperature (°C) <sup>(2)</sup>	50
MEDIA CHAMBERS	
Materials of construction	aluminium
Media type	carbon molecular sieve (CMS)
CONTROLS/DESIGN	
Generator type	pressure swing adsorption (PSA)
Controller type	programmable logic controller (PLC)
Interface type	basic - push button / advanced - HMI touch screen
Electrical rating	IP53 / NEMA 2
CONNECTIONS	
Compressed air inlet	½"
Nitrogen outlet to buffer vessel	½"
Nitrogen return from buffer vessel	¼"
Nitrogen outlet	½"

(1) At 7 barg inlet pressure

(2) Correction factors apply.

## Dimensions & Weight

DIMENSIONS AND WEIGHT	
A (mm)	918
B (mm)	440
C (mm)	453
Weight (kg)	63



## nano N<sub>2</sub>: Low Flow Nitrogen Gas Generators

### Features

- Ultra compact design and wide range of flow rates, make it the perfect generator for a variety of lower flow nitrogen applications.
- Significant cost savings over cylinder or liquid supply provides a typical return on investment of less than 24 months.
- 100% functional tested with 2-warranty.
- Eliminates safety cylinders of transporting and storing pressurised gas cylinders or liquid nitrogen.
- Reduces carbon footprint by eliminating gas delivery with positive impacts on sustainability targets.
- eco-mode energy savings control reduces energy consumption during periods of low demand.
- Optional integrated O<sub>2</sub> analyser and dew point sensors (N<sub>2</sub> or inlet air).
- Small footprint – space saving design

### Upgrades

RECOMMENDED PRE FILTRATION	PART NUMBER
Water separator	GFNB 0050 WS
1 micron prefilter	GFNB 0050 M1
01 micron prefilter	GFNB 0050 M01
Activated carbon prefilter	GFNB 0050 AC

DEW POINT MONITORING
Inlet dew point sensor (-50/+50°C DP)
Outlet dew point sensor (-100/+20°C DP)

O <sub>2</sub> ANALYSERS
Zirconium oxygen sensor
Off spec gas flush valve included with analysers

ADVANCED CONTROLLER
Advanced controller with HMI touch screen



Technical specifications subject to change without notice.  
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