

GEN2MINI-110

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.



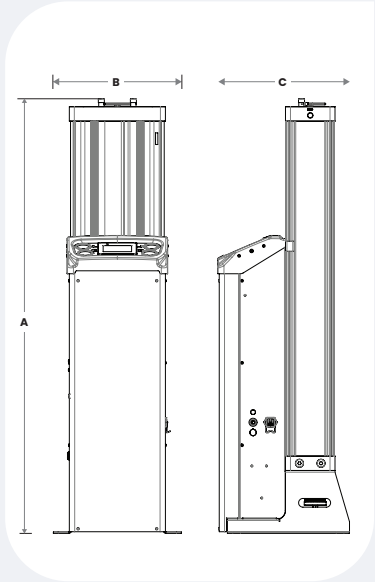
| GENERAL CHARACTERISTICS | |
|--|---|
| Rated capacity @ 95% / 99.5% / 99.999% (scfh) ⁽¹⁾ | 392 / 184/ 28 |
| Absorbed power (W) | 72 |
| Power supply (VAC/Hz) | 100-240 / 50 or 60 |
| OPERATING LIMITS | |
| Minimum inlet air quality | ISO 8573: 2010 class 2:4:1 |
| Design operating pressure range (psig) | 87 to 145 |
| Recommended operating temperature range (°F) | 68 to 77 |
| Minimum/maximum ambient temperature (°F) ⁽²⁾ | 41 / 122 |
| Maximum inlet temperature (°F) ⁽²⁾ | 122 |
| MEDIA CHAMBERS | |
| Materials of construction | aluminum |
| 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 100 psig inlet pressure

(2) Correction factors apply.

Dimensions & Weight

| DIMENSIONS AND WEIGHT | |
|-----------------------|-----|
| A (ins) | 49 |
| B (ins) | 17 |
| C (ins) | 18 |
| Weight (lbs) | 183 |



nano N₂: 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 pressurized 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 O₂ analyzer and dew point sensors (N₂ or inlet air).
- Small footprint – space saving design

Upgrades

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

| DEW POINT MONITORING |
|---|
| Inlet dew point sensor (-58/+122°F DP) |
| Outlet dew point sensor (-148/+68°F DP) |

| O ₂ ANALYZERS |
|--|
| Zirconium oxygen sensor |
| Off spec gas flush valve included with analyzers |

| ADVANCED CONTROLLER |
|---|
| Advanced controller with HMI touch screen |



Technical specifications subject to change without notice.
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