nano N₂: On-Site Gas Generators

GEN2MINI-130

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) $^{\scriptscriptstyle (1)}$	664 / 279/ 64
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) $^{\scriptscriptstyle (2)}$	41 / 122
Maximum inlet temperature (°F) $^{\scriptscriptstyle (2)}$	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	1/2"
Nitrogen outlet to buffer vessel	1/2"
Nitrogen return from buffer vessel	1/4"
Nitrogen outlet	1/2"



Dimensions & Weight

DIMENSIONS	AND WEIGHT
A (ins)	73
B (ins)	17
C (ins)	18
Weight (lbs)	249



(1) At 100 psig inlet pressure

(2) Correction factors apply.

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)

O2 ANALYZERS

Zirconium oxygen sensor

Off spec gas flush valve included with analyzers

ADVANCED CONTROLLER

Advanced controller with HMI touch screen





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