



nano N<sub>2</sub>: On-Site Gas Generators

## GEN<sub>2</sub> i4.0-4130

100-240 VAC/50 or 60 Hz – Nitrogen Generator

The nano GEN<sub>2</sub> i4.0 nitrogen generator is designed to deliver nitrogen gas at a specified purity, flow and pressure as required by the application. The nano GEN<sub>2</sub> i4.0 operates on the pressure swing adsorption principle, which allows for a continuous supply of nitrogen from clean dry compressed air. The nano GEN<sub>2</sub> i4.0 generator offers a cost-effective, reliable and safe alternative to the use of liquid or bottled nitrogen.



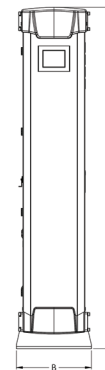
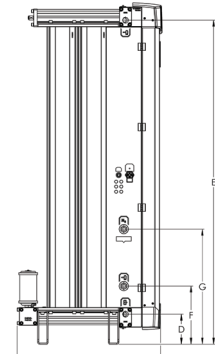
GENERAL CHARACTERISTICS	
Rated capacity (scfh) @ 95% / 99.5% / 99.999% <sup>(1)</sup>	2649 / 1335 / 360
Absorbed power (watts)	72
Power supply (VAC/Hz)	100 to 240 /50 or 60
OPERATING LIMITS	
Design operating pressure range (psig) <sup>(2)</sup>	87 to 174
Design operating temperature range (°F)	41 to 122
Recommended operating temperature range (°F)	41 to 86
MEDIA CHAMBERS	
Material of construction	aluminum
Media type (CMS)	carbon molecular sieve
CONTROLS/ DESIGN	
Generator design (PSA)	pressure swing adsorption
Controller type (PLC)	programmable logic controller
Interface type (HMI)	touchscreen
Electrical rating	IP 31 / NEMA 2
CONNECTIONS	
Compressed air inlet (NPT)	1"
Nitrogen outlet to buffer vessel (NPT)	1"
Nitrogen return form buffer vessel (NPT)	½"
Nitrogen outlet (NPT)	½"

(1) 100 psig inlet pressure

(2) 174 psig maximum pressure standard with 210 psig option available in Canada.

### Dimensions & Weight

DIMENSIONS AND WEIGHT	
A (ins)	72
B (ins)	16
C (ins)	44
Weight (lbs)	922



## GEN<sub>2</sub> i4.0: Nitrogen Generators

### Features

- Reliable high performance piston valves
- Advanced PLC controller & touchscreen interface
- Integrated zirconia oxygen analyzer - 5 year life
- ecomode energy saving control as standard
- 2 year warranty
- Pressure equalization at column switchover increases outlet flow.
- Multi-bank design enables units to be added as needed.
- Mass flow controller & pressure regulator deliver precise pressure and flow.
- Outlet purity valve guarantees nitrogen gas purity level to application.

### Advanced PLC/ HMI features

- Large 5.7" touchscreen interface
- Displays inlet and outlet pressure in psig or barg
- Recorded data can be downloaded via SD memory card or USB device
- Low inlet & outlet pressure alarms
- Displays O<sub>2</sub> content with 4-20mA output signal as standard
- Select from multiple languages
- Optional purity dependent energy savings (PDES) saves compressed air.
- Service performed and alarms are logged and recorded.
- Multi-bank design enables units to be added as needed.
- Modbus TCP communications via RJ45 ethernet port

Technical specifications subject to change without notice.  
Publication Reference: GEN<sub>2</sub>i4.0-4130-CA-EN-Version-001  
©2025 Air & Gas Solutions LLC



**nano**  
Experience. Customer. Service.

nano-purification solutions  
[www.nano-purification.com](http://www.nano-purification.com)

Canada  
St. Catharines, Ontario, Canada  
Phone: +1 905 684 6266  
Email: [canadasupport@airandgassolutions.com](mailto:canadasupport@airandgassolutions.com)

United States | Canada | United Kingdom | Germany | Singapore