

nano N₂: On-Site Gas Generators

GEN₂ i4.0-1110

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

The nano GEN_2 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_2 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_2 i4.0 generator offers a cost-effective, reliable and safe alternative to the use of liquid or bottled nitrogen.

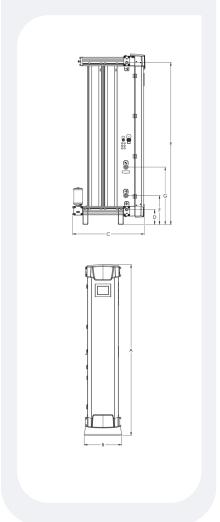
GENERAL CHARACTERISTICS	
Rated capacity (scfh) @ 95% / 99.5% / 99.999% (1)	364 / 184 / 32
Absorbed power (watts)	72
Power supply (VAC/Hz)	100 to 240 /50 or 60
OPERATING LIMITS	
Design operating pressure range (psig) (2)	87 to 174
Design operating temperature range (°F)	41 to 122
Recommended operating 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)	1/2"
Nitrogen outlet (NPT)	1/2"

- (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)	48	
B (ins)	16	
C (ins)	24	
Weight (lbs)	348	



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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 O₂ 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

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