

GEN2 i4.0-3110

100 - 240 VAC/50 or 60 Hz - nitrogen generator

The nano GEN₂ i4.0 nitrogen generator is designed to deliver nitrogen gas at a specified purity, flow and pressure as required by the application. The nano GEN₂ i4.0 operates on the pressure swing adsorption principle, which allows for a continuous supply of Nitrogen from clean dry compressed air. The nano GEN₂ 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%	1091 / 551 / 95 ⁽¹⁾
absorbed power (watts)	72
power supply	100-240 VAC / 50 or 60 Hz

operating limits

design operating pressure range (psig)	87 - 174 ⁽²⁾
design operating temperature range (°F)	41 - 122
recommended operating temperature range (°F)	41 - 86

media chambers

material of construction	aluminum
media type	carbon molecular sieve (CMS)

controls/design

generator design	pressure swing adsorption (PSA)
controller type	programmable logic controller (PLC)
interface type	touchscreen (HMI)
electrical rating	IP 31 / NEMA 2

connections

compressed air inlet (NPT)	1"
nitrogen outlet to buffer vessel (NPT)	1"
nitrogen return from buffer vessel (NPT)	½"
nitrogen outlet (NPT)	½"

(1) 100 psig inlet pressure

(2) 174 psig maximum pressure standard with 232 psig option available in the USA. 210 psig option available in Canada

features

- reliable high performance piston valves
- advanced PLC controller & touchscreen interface
- 174 psig maximum pressure standard with 232 psig option available in the USA. 210 psig option available in Canada
- integrated zirconia oxygen analyzer - 5 year life
- ecomode energy saving control as standard
- 2 year system 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
- modbus TCP communications via RJ45 ethernet port

nano-purification solutions
charlotte, north carolina
united states

nano-purification solutions
new bethlehem, pennsylvania
united states

nano-purification solutions
st. catharines, ontario
canada

nano-purification solutions
gateshead, tyne and wear
united kingdom

nano-purification solutions
erkelenz, germany

tel: 704.897.2182
fax: 704.897.2183
email: support@n-psi.com
web: www.n-psi.com

technical specification

dimensions & weight

length in (mm)	15.7 (399)
depth in (mm)	37 (940)
height in (mm)	47.8 (1214)
weight lbs (kgs)	560 (254)

experience

