

GEN2 i4.0-2110

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%	727 / 367 / 64 ⁽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

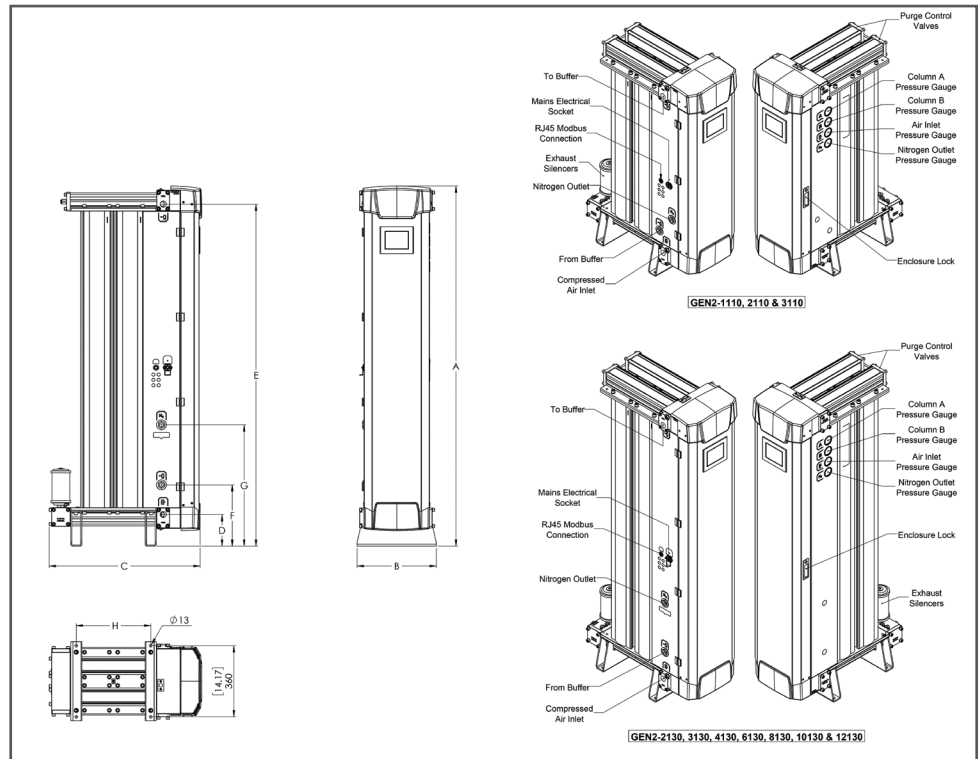
tel: 704.897.2182
fax: 704.897.2183
email: support@n-psi.com
web: www.n-psi.com

technical specification

dimensions & weight

length in (mm)	15.7 (399)
depth in (mm)	30.4 (772)
height in (mm)	47.8 (1214)
weight lbs (kgs)	437 (198)

experience



technical specifications subject to change without notice. Direct inquiries to support@n-psi.com or contact 704.897.2182