### nano GEN<sub>2</sub> i4.0: modular nitrogen gas generators

# GEN2 i4.0-2130 100 - 240 VAC/50 or 60 Hz - nitrogen generator

The nano  $\text{GEN}_2$  *i4.0* nitrogen generator is designed to deliver nitrogen gas at a specified purity, flow and pressure as required by the application. The nano  $\text{GEN}_2$ *i4.0* operates on the pressure swing adsorption principle, which allows for a continuous supply of nitrogen from clean dry compressed air. The nano  $\text{GEN}_2$  *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%	1324 / 667 / 180 (1)
absorbed power (watts)	72
power supply	100-240 VAC / 50 or 60 Hz
operating limits	
design operating pressure range (psig)	87 - 174 <sup>(2)</sup>
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)	1/2"
nitrogen outlet (NPT)	1/2"

(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

### 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
- $\bullet$  displays  $O_2$  content with 4-20mA output signal as standard

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

#### • 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

# Daeo

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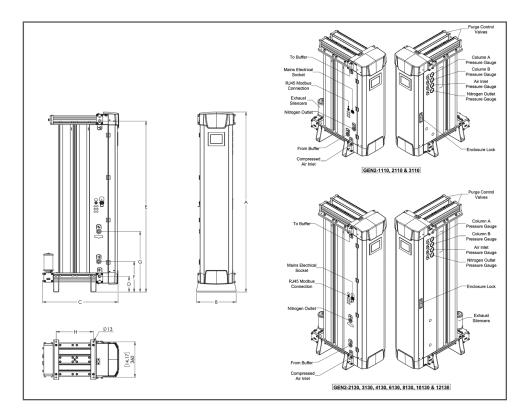
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# Daeo

# technical specification

dimensions & weight		
length in (mm)	15.7 (399)	
depth in (mm)	30.4 (772)	
height in (mm)	71.8 (1824)	
weight lbs (kgs)	555 (252)	





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

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