nano GEN_2 MAX: nitrogen gas generators

GEN2-MAX 9.5K

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

The nano GEN_2 MAX nitrogen generator is designed to deliver nitrogen gas at a specified purity, flow and pressure as required by the application. The nano GEN_2 MAX operates on the pressure swing adsorption principle, which allows for a continuous supply of nitrogen from clean dry compressed air. The nano GEN_2 MAX 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) (2)	18,293 / 8,885 / 2,387
rated capacity (Nm^3/hr) @ 95% / 99.5% / 99.999% (1) (2)	518 / 252 / 68
absorbed power (watt)	<200
power supply	100-240 VAC / 50 or 60 Hz
operating limits	
design operating pressure range psig (barg)	72.5 to 145 (5 to 10)
design operating temperature range °F (°C) (3)	41 to 122 (5 to 50)
recommended operating temperature range °F (°C) (3)	41 to 95 (5 to 35)
media chambers	
material of construction	carbon steel
media type	carbon molecular sieve (CMS)
controls/design	
generator design	pressure swing adsorption (PSA)
controller type	VISION 01 programmable logic controller (PLC)
interface type	touchscreen (HMI)
electrical rating	IP 31 / NEMA 2
connections	
compressed air inlet (flange) (4)	3"
nitrogen outlet to buffer vessel (flange) (4)	3"
nitrogen return from buffer vessel (flange) (4)	2" % units / 1.5" PPM units
nitrogen outlet (flange) (4)	2"

(1) 101.5 psig inlet pressure / 68°F inlet temperature (7 barg / 20°C)
(2) consult factory for N2 capacities between 95 to 99.999% that are now shown
(3) low ambient(+14°F) option available
(4) flange type ANSI or DIN dependent on model ordered

scope of supply

mechanical components

- two welded adsorption vessels with full shell size top flange, lifting lug, inlet and outlet strainers
- high density fill of high grade carbon molecular sieve (CMS)
- thermal relief safety valves for each welded vessel
- self-regulating nitrogen pressure reducing valve
- piping with standard flange tie-in connections
- pneumatic actuated inlet, blow off, equalization and outlet valves
- blow-off line with silencer (depressurization and off spec nitrogen blow-off)
- pilot control air filter and pressure regulator
- structural base frame with integrated forklift slots
- high quality butterfly valves with stainless steel trim
- compliance with international electrical (IEC or UL) and mechanical codes (ASME/CE)

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nano

experience

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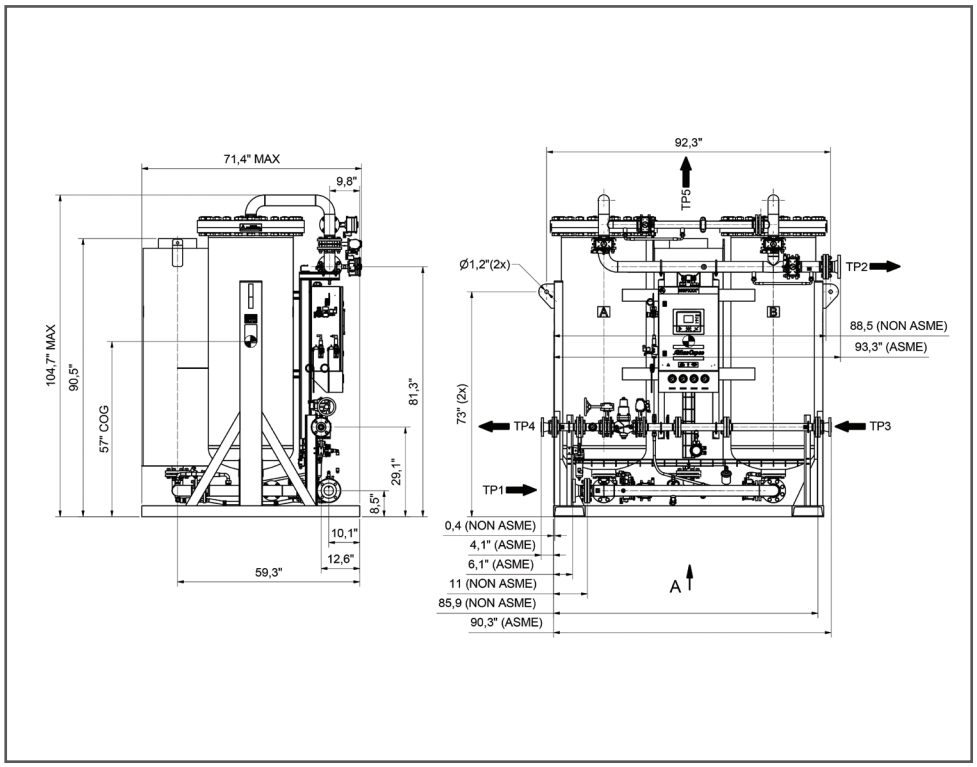
controls and monitoring

- VISION [01] control and monitoring system uses advanced algorithms for maximum reliability
  - 31 languages facilitating easy communication
  - comprehensive, proactive maintenance display
  - ICONS as standard for remote service and performance monitoring
  - user-friendly, intuitive navigation system
  - ethernet connection for local monitoring via LAN/DCS system
  - optional Modbus interface
- integrated zirconia oxygen sensor - 5 year life
- nitrogen thermal mass flow meter
- inlet air pressure, temperature and dew point sensors
- nitrogen vessel pressure sensors
- ecomode energy saving and PDES control modes as standard

dimensions & weight

length in (mm)	88 (2235)
depth in (mm)	71 (1803)
height in (mm)	103 (2616)
weight lbs (kgs)	7055 (3200)



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

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