

GEN2-MAX 20K

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

The nano GEN₂ MAX nitrogen generator is designed to deliver nitrogen gas at a specified purity, flow and pressure as required by the application. The nano GEN₂ MAX operates on the pressure swing adsorption principle, which allows for a continuous supply of nitrogen from clean dry compressed air. The nano GEN₂ 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⁾	41,933 / 20,370 / 5,477
rated capacity (Nm ³ /hr) @ 95% / 99.5% / 99.999% ⁽¹⁾⁽²⁾	1187 / 577 / 155
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⁾	4"
nitrogen outlet to buffer vessel (flange) ⁽⁴⁾	4"
nitrogen return from buffer vessel (flange) ⁽⁴⁾	3" % units / 2" PPM units
nitrogen outlet (flange) ⁽⁴⁾	3"

(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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- VISION⁰¹ 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

length in (mm)	113 (2870)
depth in (mm)	83 (2108)
height in (mm)	121 (3073)
weight lbs (kgs)	15432 (7000)

