GEN2-MAX 15K

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) 28,944 / 14,062 / 3,779		
rated capacity (Nm³/hr) @ 95% / 99.5% / 99.999% (1)(2)	820 / 398 / 107	
absorbed power (watt)	<200	
power supply 100-240 VAC / 50 or 60		
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
- compliance with international electrical (IEC or UL) and mechanical codes (ASME/CE)



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GLIGHCE

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)	105 (2667)	
depth in (mm)	71 (1803)	
height in (mm)	104 (2642)	
weight lbs (kgs)	10582 (4800)	



