

# GENERON® Modular PSA Nitrogen Generator

## NG-48" Series

GENERON® Modular PSA Nitro-Gen Generator Model 48" (NG-4), separates Nitrogen from compressed air using Pressure Swing Adsorption (PSA) technology. Factory self-production of nitrogen eliminates safety issues such as; hazardous contact with liquid nitrogen (Dwars), moving and storage of bottled gas, delivery issues, product loss. The GENERON® Nitro-GEN 48" (NG-4) is manufactured in the USA. It is machined from heavy duty aluminum components. It has an integrated manifold design eliminating cumbersome piping which eliminates potential leaking and generates more product. Integrated options like; Off specification gas venting, Auto stand by, Auto shut down. The Nitro-GEN 48" (NG-4) can be built with up to 5 banks deep.

### Typical Applications:

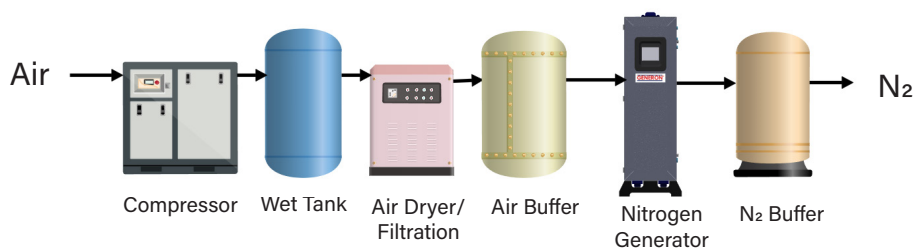
- Laser and Metal Cutting
- Plastic Injection Molding
- Food & Beverage
- Autoclave Curing
- Tire Industry (Manufacture and Mounting)
- Electronics/Semiconductor Manufacturing
- Laboratory
- Medical Industry
- Pharmaceutical
- Oil/Gas & Chemical Industries

### Features:

1. Made in the USA
2. Flexible Modular Design
3. Compact Design
4. Fully Automatic Unattended Operation
5. Manifold Control Block
6. Internal-diagnostics
7. Low Energy Consumption
8. Simple Maintenance
9. Long Life Zirconium Oxide Sensor
10. Factory Pre-Tested
11. Multiple Design Sizes



### Process Schematic



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### Benefits:

1. Field Expandable (allows for adding additional banks to a generator)
2. Multiple NG series generators can be operated together
3. Small Footprint with two standard sizes
4. PLC with HMI Color Touch Screen Controller, Factory Programmed, Password Protected
5. No cumbersome pipe work with multiple leak point potential
6. With removal of unnecessary piping, nitrogen ratio to compressed air increases
7. Lower operational costs with long life cycling valves
8. Increased life of oxygen sensor from 18 months to 60 months
9. Unit is pretested and set to your specifications on our certified test stand
10. Able to perform an internal testing of all valve seal seating



### NG-4 Series Sample Flow Rates in SCFH

	95%	97%	99%	99.5%	99.9%	99.99%	99.999%
NG 4-1	990	819	592	511	324	194	83
NG 4-2	1,981	1,639	1,185	1,023	648	389	166
NG 4-3	2,971	2,458	1,777	1,534	972	583	248
NG 4-4	3,961	3,277	2,370	2,046	1,296	778	331
NG 4-5	4,952	4,097	2,962	2,557	1,621	972	414

Conditions: Feed temp 80°F, Feed pressure 110 PSIG, sea level.  
Flow and pressure values are averages with tolerances of +/- 3%

Dimensions:	NG-4-5 = 59"L x 24"W x 65"H
Weight:	NG-4 3,050 lbs (1,383 kg) with Carbon Molecular Sieve
Inlet Air Connection:	1" Female NPT
Nitrogen Outlet Connections:	¾" Female NPT
Max Temperature:	50°-140° F (10°- 60° C)
Max Pressure:	90-150psig (6.2-10.3barg)
Power:	120 volt single phase ½ kW

\* Flow values, sizes and weights are nominal

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**GENERON®**

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