

GENERON®

TRITON₂

Sequential PSA Nitrogen Generator

GENERON® Sequential PSA Nitrogen Generators separate nitrogen from compressed air utilizing Pressure Swing Adsorption (PSA) technology. This product line is designed for medium to large flow rates and have a reduced footprint. It consists of multiple pairs of our Twin Tower Adsorber Vessels and operates on alternating cycles.

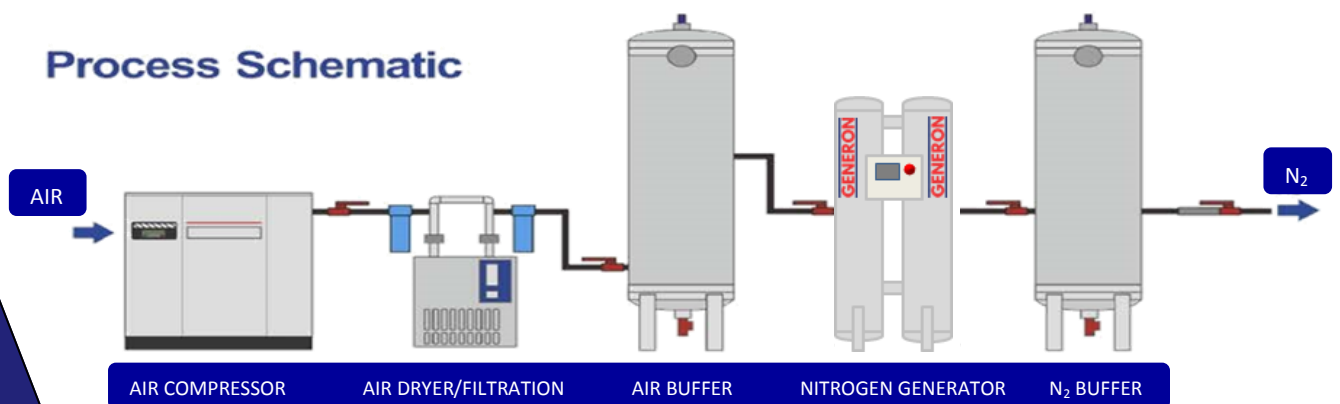
Standard Features:

- ASME Adsorber Vessels
- High Cycle Life Pneumatic / Electric Valves
- Oxygen Analyzer (with calibration kit)
- Pressure Safety Valve
- Nitrogen Pressure Regulator
- PLC Control System
- Carbon Steel Skid
- Exhaust Silencing Muffler
- Highest Performance Adsorbent Media
- Low Overall Height for Compact Area

Options / Upgrades:

- Inlet Filtration Package
- Post Filtration Package
- Product Flow Meter
- Auto Shut Down/Startup/Standby mode
- Off Specification Circuit
- Compressed Air Buffer Tank
- Nitrogen Buffer Tank
- Master Controller driven for multiple unit operation
- Enhanced PLC with Telemetry
- HMI Display Screen
- Dew Point Analyzer
- Energy Saving Part-Load Control

Process Schematic



GENERON

www.generon.com

GENERON® TRITON₂ - Sequential PSA Nitrogen Generator

Advantages:

- Low Gas Generating Cost
- Low Energy Consumption
- Fully Automatic Unattended Operation
- Highly Reliable
- Easy Installation
- Low Maintenance
- Heavy Duty Construction
- No Hazardous Storage
- Low dBa Levels



PARAMETERS	Dimensions:	116" - 240" L x 96" W x 108" H
	Weight	8,000 - 45,000 lbs
	Power Requirement:	900 - 1,500 WATT @ 120 VAC Supply
	Inlet Air Connection:	3" - 6" 150# RF
	N₂ Outlet Connection:	2" - 4" 150# RF

Product	Model Size	psig	barg	Nitrogen Purity / Flow Rate									
				97%		99%		99.90%		99.99%		99.999%	
				scfm	Nm ³ /h	scfm	Nm ³ /h	scfm	Nm ³ /h	scfm	Nm ³ /h	scfm	Nm ³ /h
	2xNS-20-65	90 to 145	6.2 to 10	171-292	271-463	126-207	200-329	72-108	115-171	49-58	77-93	25-21	41-33
	2xNS-24-64	90 to 145	6.2 to 10	246-420	390-665	181-298	288-472	104-155	165-246	70-84	111-133	37-30	59-48
	2xNS-30-56	90 to 145	6.2 to 10	341-582	541-922	252-413	399-654	144-215	229-341	98-117	155-185	51-42	81-66
	2xNS-36-56	90 to 145	6.2 to 10	496-846	786-1340	366-600	579-951	210-313	333-495	142-170	225-269	75-61	118-97
	3xNS-36-56	90 to 145	6.2 to 10	745-1269	1179-2010	549-901	869-1427	315-469	500-743	213-255	338-404	112-92	178-146
	4xNS-36-56	90 to 145	6.2 to 10	993-1692	1572-2680	732-1201	1159-1902	421-626	666-991	284-340	450-539	150-122	237-194
	5xNS-36-56	90 to 145	6.2 to 10	1241-2116	1965-3350	915-1502	1449-2378	526-783	833-1239	356-425	563-673	187-153	297-243
	6xNS-36-56	90 to 145	6.2 to 10	2483-4232	3931-6700	1831-3004	2899-4757	1052-1566	1666-2479	712-851	1127-1347	375-307	594-486

Flow and pressure values are averages throughout a cycle with tolerances of ±4%. Performance data based on 68°F (20°C) PSA inlet temperature. Standard conditions: 68°F (20°C) and 14.696 psi (1 atm). Custom sizes are available upon request.

GENERON

GENERON USA

16250 Tomball Parkway
Houston, Texas 77086

