

# GENERON®

# TRITON<sub>2</sub>

## Twin Tower PSA Nitrogen Generator

GENERON® Twin Tower 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, allowing for minimal space requirements aboard ships and tankers. It consists of single pairs of our Twin Tower Adsorber Vessels and air and nitrogen buffer vessels (installed on a common skid or supplied separately).

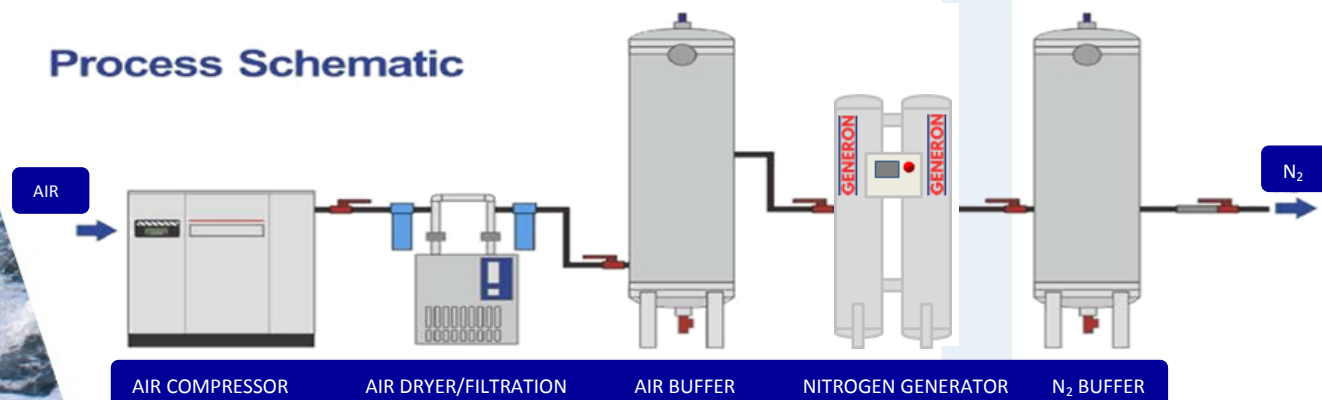
### Standard Features:

- Inlet Filtration Package
- Post Filtration Package
- ASME Adsorber Vessels
- Pneumatic / Electric Valves (high cycle life)
- Oxygen Analyzer (with calibration kit)
- Auto Standby mode
- Off Specification Circuit
- Safety Valve
- Nitrogen Pressure Regulator
- PLC Control System
- HMI Display Screen
- Carbon Steel Skid Mounted
- Exhaust Silencing Muffler

### Options / Upgrades

- Product Flow Meter
- Auto Shut Down/Startup mode
- Compressed Air Buffer Tank
- Nitrogen Buffer Tank
- Pressure Reducing Cabinet
- Remote Panels for Control Rooms
- Master Controller driven for multiple unit operation
- Enhanced PLC with Telemetry
- Dew Point Analyzer

### Process Schematic



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NORWAY

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## Advantages:

- Low Gas Generating Cost
- Low Energy Consumption
- Fully Automatic Unattended Operation
- 2 Million+ Cycle Valves
- Easy Installation
- Low Maintenance
- Heavy Duty Construction
- No Hazardous Storage
- Low dBa Levels



Nitrogen Purity / Flow Rate													
Product	Model Size	psig	barg	97%		99%		99.90%		99.99%		99.999%	
				scfm	Nm <sup>3</sup> /h	scfm	Nm <sup>3</sup> /h	scfm	Nm <sup>3</sup> /h	scfm	Nm <sup>3</sup> /h	scfm	Nm <sup>3</sup> /h
	NS-20-65	90 to 145	6.2 to 10	85-146	135-231	63-103	100-164	36-54	57-85	24-29	38-46	12-10	20-16
NS-24-64	90 to 145	6.2 to 10	123-210	195-332	90-149	144-236	52-77	82-123	35-42	55-66	18-15	29-24	
NS-30-56	90 to 145	6.2 to 10	170-291	270-461	126-206	199-327	72-107	114-170	49-58	77-92	25-21	40-33	
NS-36-56	90 to 145	6.2 to 10	248-423	393-670	183-300	289-475	105-156	166-247	71-85	112-134	37-30	59-48	

The nominal rating of the generators are at 68°F (20°C), 0% RH and at 14.696 psi (1 atm).  
Flow and pressure values are averages throughout a cycle with tolerances of ±4%. Custom sizes are available upon request.

PARAMETERS	Dimensions:	1,475 - 2,235 mm L x 1,475 - 1,880 mm W x 2,440 mm H
	Weight	1,750—4,250 kg
	Power Requirement:	300 - 1,500 WATT @ 230 VAC Supply
	Inlet Air Connection:	1" (DN 25) - 4" (DN 100) 150# RF
	N <sub>2</sub> Outlet Connection:	1" (DN 25) - 3" (DN 75) 150# RF

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