

GENERON®

TRITON₂

Bank PSA Nitrogen Generator

GENERON® Compact Bank PSA Nitrogen Generators separate nitrogen from compressed air utilizing Pressure Swing Adsorption (PSA) technologies. On-site nitrogen production eliminates the safety issues of handling and storing bottles and liquid nitrogen.

Typical Applications:

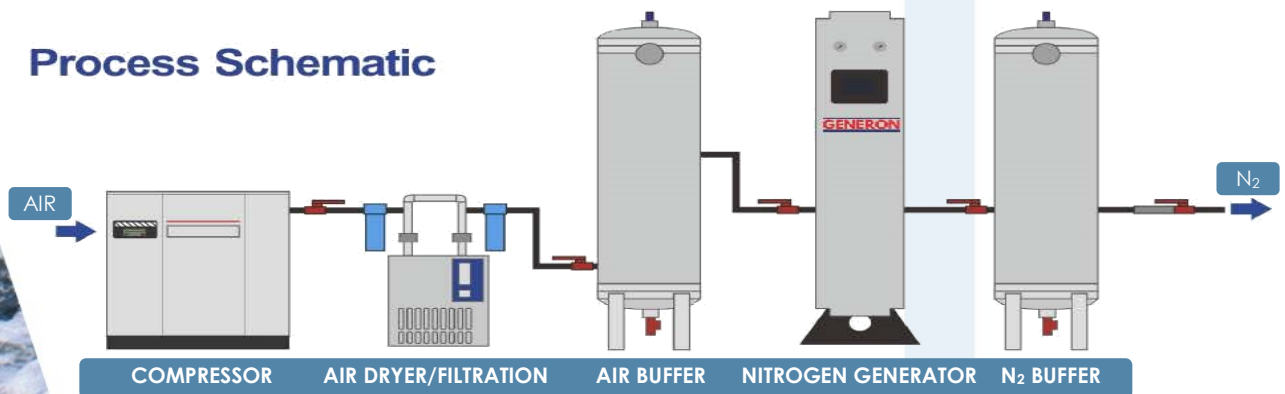
- LNG Tankers
- Chemical Tankers
- Inerting of Flammable Liquids & Gases
- Cargo Blanketing
- Controlled Atmospheres
- Dual Fuel Systems
- Bilge Water Purging
- Oil Platform Inerting
- Padding of Highly Oxygen Sensible Cargo
- Isolation of Cryogenic Compressors

Standard Features:

- Expandable Design
- Product Purity Control with Off-Spec Gas Auto-vent
- PLC Control System with HMI
- Oxygen Analyzer with Calibration Connection
- Marine Certification
- Buffer/Storage Tanks Available
- Product Flow Meter Available



Process Schematic



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NORWAY

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GENERON® TRITON₂ - Bank PSA Nitrogen Generator

Advantages:

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



PARAMETERS	Dimensions:	595-2215 mm L x 500 mm W x 1810 mm H
	Weight	195-1,050 kg
	Power Requirement:	60 WATT @ 230 VAC Supply
	Inlet Air Connection:	G 1" (DN 25)
	N₂ Outlet Connection:	G 1" (DN 25)

Product	Model	Nitrogen Purity / Flow Rate (Nm³/h)											
		99.999%	99.995%	99.99%	99.95%	99.9%	99.8%	99.5%	99%	98%	97%	96%	95%
	NSM-1	1.9	3.2	3.6	5.7	6.6	7.5	8.9	10.4	13.0	15.1	16.9	18.5
	NSM-2	3.7	6.4	7.3	11.4	13.2	14.9	17.8	20.8	25.9	30.2	33.7	36.9
	NSM-3	5.6	9.6	10.9	17.1	19.8	22.4	26.6	31.2	38.9	45.3	50.6	55.4
	NSM-4	7.5	12.8	14.5	22.7	26.3	29.9	35.5	41.6	51.9	60.4	67.5	73.9
	NSM-5	9.4	16.0	18.1	28.4	32.9	37.3	44.4	52.0	64.8	75.5	84.3	92.3
	NSM-6	11.1	19.0	21.5	33.8	39.1	44.4	52.7	61.7	77.0	89.6	100.2	109.7
	NSM-7	13.0	22.1	25.1	39.4	45.6	51.8	61.5	72.0	89.9	104.6	116.9	128.0
	NSM-8	14.7	25.2	28.6	44.8	51.9	58.8	70.0	81.9	102.2	118.9	132.9	145.5
	NSM-9	16.5	28.2	32.0	50.1	58.1	65.9	78.3	91.6	114.4	133.1	148.8	162.9
	NSM-10	18.4	31.5	35.7	56.0	64.8	73.6	87.4	102.3	127.7	148.7	166.1	181.9

Performance data is based on inlet air at 7 bar(g) and 20-25°C.
Flow values are averages throughout a cycle with tolerances of ±4%.

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