

GENERON® NSM Series

Compact 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:

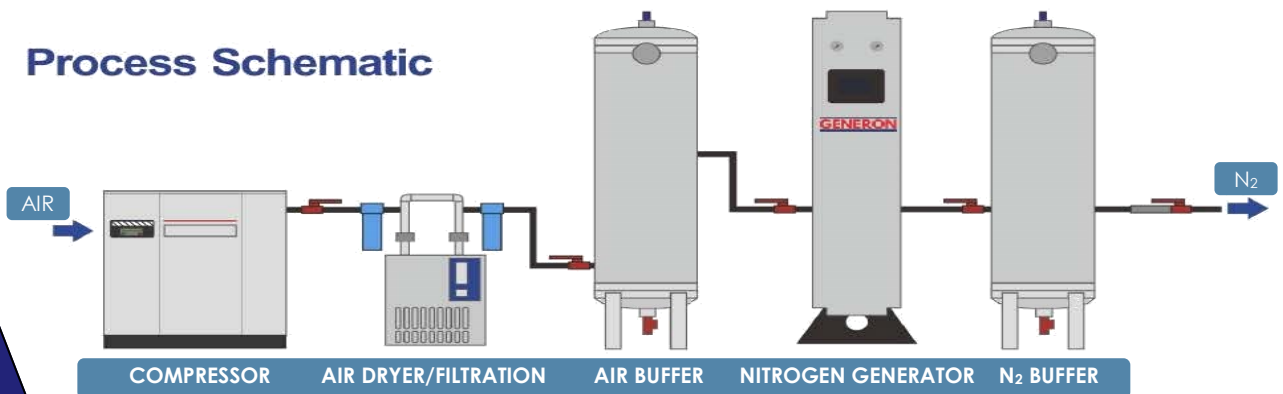
- Food and Beverage
- Pharmaceutical
- Oil & Gas and Chemical Industries
- Metals / Laser Cutting
- Plastic Injection Molding
- Laboratory
- Electronics / Semiconductor manufacturing
- Medical

Features:

- Compact Design
- PLC Control System with Color Touch Screen HMI
- HMI activated Off-Spec Gas Auto-vent, Energy saving Auto Standby, and Auto Shut down
- Integrated Oxygen Analyzer with Zirconium Oxide Sensor and calibration connection port
- Product Purity Control Factory Set
- Low dBa <85
- Custom Compression, Pretreatment, Buffer/Storage Tanks, and Product Flow Meter Available



Process Schematic



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Advantages:

- Small Footprint
- Low Gas Generating Cost
- Low Energy Consumption
- Fully Automatic Unattended Operation
- Easy Installation
- Low Maintenance
- Heavy Duty Construction
- No Hazardous Storage
- Noise level below OSHA standards



PARAMETERS	Dimensions:	2'-0" - 7'-4" L x 1'-8" W x 6'-0" H
	Weight	425 - 2,315 lbs
	Power Requirement:	480 WATT @ 120 VAC Supply
	Inlet Air Connection:	1" NPT
	N₂ Outlet Connection:	1" NPT

Model	Nitrogen Purity / Flow Rate (SCFM)											
	99.999%	99.995%	99.99%	99.95%	99.9%	99.8%	99.5%	99%	98%	97%	96%	95%
NSM-1	1.20	2.02	2.27	3.60	4.17	4.74	5.62	6.57	8.21	9.54	10.68	11.69
NSM-2	2.34	4.04	4.61	7.20	8.34	9.41	11.24	13.14	16.36	19.08	21.29	23.31
NSM-3	3.54	6.06	6.89	10.80	12.51	14.15	16.8	19.71	24.57	28.62	31.96	34.99
NSM-4	4.74	8.09	9.16	14.34	16.61	18.89	22.42	26.28	32.78	38.15	42.64	46.68
NSM-5	5.94	10.11	11.43	17.94	20.78	23.56	28.05	32.85	40.93	47.69	53.25	58.30
NSM-6	7.01	12.00	13.58	21.35	24.7	28.05	33.29	38.97	48.64	56.60	63.29	69.30
NSM-7	8.21	13.96	15.86	24.89	28.80	32.72	38.85	45.48	56.79	66.07	73.84	80.85
NSM-8	9.29	15.92	18.07	28.30	32.78	37.14	44.22	51.73	64.56	75.11	83.95	91.91
NSM-9	10.42	17.81	20.21	31.65	36.70	41.63	49.46	57.86	72.26	84.08	93.99	102.9
NSM-10	11.62	19.90	22.55	35.37	40.93	46.49	55.21	64.62	80.67	93.93	104.9	114.9

Performance data is based on inlet air at 100 psig and 77 °F.
Flow values are averages throughout a cycle with tolerances of ±4%.