



NOXERIOR
GAS
SYSTEMS



MODULAR NITROGEN GENERATOR NITROSWING NS-49

Up to 99.999% nitrogen

Nitroswing is a range of modular PSA generators resulting of years of R&D within Novair Noxerion Gas Systems.

Highly efficient and reliable, Nitroswing offers a full flexibility thanks to its unique patented modular design.

Rev A 04/2021

Key features

- Adsorber Module(s) in Anodised Aluminium
- Set of External Feed Air Filters
- Pneumatic Valves
- Internal Piping in Stainless Steel 316
- Maintenance-free Exhaust Silencers
- Air Flow Regulation
- Local Instrumentation
- Control System with Siemens SIMATIC® colour 7" Touch Screen
- Operator Interface and Data logging
- Standard Profinet Industrial Ethernet Interface
- Nitrogen Pressure Transmitter for Optimal Monitoring and Automated Idle-Mode

Designed for

- Blanketing of Chemicals and Pharmaceuticals
- Gas Assisted Injection Moulding (GAIM)
- Heat Treatment of Ferrous & Non-Ferrous Metals
- Inerting of Flammable Liquids
- Laser Cutting
- Prevention of Dust Explosions
- Re-flow and Wave Soldering of PCBs
- UV-Curing of Coatings
- Food & Beverage Processing and Packaging



Benefits

- **Safety:** Low Operating Pressures, no Hazardous Storage
- **Economy:** Low Operating Costs, Easily Expandable
- **Convenience:** Fully Automatic and Unattended Operation
- **Reliability:** Easy to Install and Maintain

www.novairindustries.com

NITROSWING NS-49

On site nitrogen production up to 99,999%



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Technical data

Oxygen Content		10ppm		50 ppm		100 ppm		500 ppm		0.1 vol.%		0.5 vol.%		1 vol.%		2 vol.%		3 vol.%	
Feed Air Pressure	bar(g)	7.5	10	7.5	10	7.5	10	7.5	10	7.5	10	7.5	10	7.5	10	7.5	10	7.5	10
	psig	110	145	110	145	110	145	110	145	110	145	110	145	110	145	110	145	110	145
Product Flow rate ¹	m ³ /h	16.2	18.8	21.4	25.4	25.8	29.8	35.4	45.2	43	51.7	60.5	72.9	72.7	83	89.2	102	96	110
	scfm	10.2	11.9	13.5	16	16.3	18.8	22.4	28.6	27.2	32.7	38.2	46	45.9	52.4	56.3	64.4	60.6	69.5
Product Pressure	bar(g)	6	8	6	8	6	8	6	8	6	8	6	8	6	8	5.8	7.8	5.7	7.7
	psig	87	116	87	116	87	116	87	116	87	116	87	116	87	116	84	113	83	112
Feed Air Consumption ¹	m ³ /h	105	118	109	147	111	129	123	146	135	154	157	188	171	205	187	230	187	225
	scfm	66.3	74.5	68.9	92.9	70.1	81.5	77.7	92.2	85.3	97.3	99.2	119	108	129	118	145	118	142
Min. Air/N ₂ Receiver ¹	litre	550	650	550	500	600	700	600	800	650	800	700	850	750	850	850	950	850	950
	gallon	149	176	149	135	162	189	162	216	176	216	189	230	203	230	230	257	230	257
Dew Point ³	°C/°F	≤-40 / -40																	
Sound Level L _{eq}	dB(A)	< 75																	

¹ Definition of m³ refers to atmospheric conditions 20 °C, 1013 mbar and dry basis.

Indicated flow rates are valid for operation of the generator at atmospheric conditions 20 °C / 68 °F, 1013 mbar / 14.7 psi and 60% RH.

² Smaller receiver volumes might result in lower product pressures. Please contact manufacturer for details.

³ Dew point at atmospheric pressure

Peripheral Equipment & Options

- Dual Bank Unit(s)
- Feed Air Unit
- Supporting Frame for Air Filters
- Oxygen Analyser with Zirconium-Oxide Sensor
- Electronic Product Flow Meter
- Feed Air / Product Moisture Analyser
- Feed Air / Product Temperature Transmitters
- Nitrogen Sterile Filters
- Telemetry for Remote Monitoring
- Nitrogen Booster & Cylinder filling System

Conformity & Certifications

2014/68 EU	(PED – Cat. 1, Mod. H)
2014/30/CE	(Electromagnetic Compatibility)
2006/42/CE	(Machinery Directive)
2014/35/CE	(Low Voltage Directive)

Dimensions & Weight

L	W	H		Weight
520	2095	1422	mm	916 kg
20	82.5	56	in.	2020 lb

Product protected by international patents

Nr. EP2047897A1, EP2047897B1, EP2052769A1, EP2052769B1

Feed Air Requirements

Supply Pressure	6.0 / 10.0 bar(g) 87 / 145 psig
Supply Temperature	5 / 45 °C 41 / 113 °F
Min. Air Quality ⁴	Class 0.4.0 to ISO 8573.1

⁴ Feed air quality at air filter outlet. Improper feed air quality may cause damage to the nitrogen generator not covered under warranty

Power Requirements

Power Supply	110–230 V / 50–60 Hz
Power Consumption	max. 0.3 kW

Installation Requirements

Well ventilated and weather protected environment with ambient temperatures between +5 °C / +41 °F and +45 °C / +113 °F. Classified areas excluded.

Connections

Feed Air Inlet	G 1"
Nitrogen Send	G ½"
Nitrogen Return ⁵	G 1"
Nitrogen Outlet ⁵	G 1"

⁵ Only in case of on-board installation of a residual oxygen analyser and/or a product flow meter.