



NOXERIOR
GAS
SYSTEMS



MODULAR NITROGEN GENERATOR NITROSWING NS-56

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-56

On site nitrogen production up to 99,999%



NOXERIOR
GAS
SYSTEMS

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	m3/h	18.4	21.4	24.3	28.8	29.7	33.9	41.6	51.4	48.9	58.8	68.9	83	82.7	94.5	101	116	109	126
	scfm	11.6	13.5	15.3	18.2	18.8	21.4	26.3	32.5	30.9	37.1	43.5	52.4	52.2	59.7	63.8	73.3	68.9	79.6
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	m3/h	119	134	124	147	144	146	148	166	154	175	179	214	194	234	213	261	213	256
	scfm	75.2	84.6	78.3	92.9	91	92.2	93.5	105	97.3	111	113	135	123	148	135	165	135	162
Min. Air/N2 Receiver ¹	litre	650	700	600	750	550	800	700	900	750	900	800	1000	850	1000	950	1100	950	1100
	gallon	176	189	162	203	149	216	189	243	203	243	216	270	230	270	257	297	257	297
Dew Point ³	°C/°F	≤-40 / -40																	
Sound Level Leq	dB(A)	< 75																	

¹Definition 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	2323	1422	mm	1026 kg
20	91.5	56	in.	2262 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.