NOVAIR | NOXERIOR GAS SYSTEMS



MODULAR OXYGEN GENERATOR

OXYSWING OS-24

Up to 95% oxygen purity

Oxyswing is a range of modular PSA generators resulting of years of R&D within Novair Noxerior Gas Systems.
Highly efficient and reliable, Oxyswing 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
- Automatic shut off valve included
- 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
- Oxygen Pressure Transmitter for Optimal Monitoring and Automated Idle-Mode



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

Designed for

- Aquaculture
- Feed Gas for Ozone Generators
- Glass Blowing
- Leaching of Gold & Silver Ores
- NOx Reduction for Fuel Burners
- Oxygen Lancing
- Welding, Brazing
- Wellness

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On site oxygen production up to 95%

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Technical data

Oxygen Content		90 vol.%	93 vol.%	95 vol.%
Feed Air Pressure	bar(g)	7.5	7.5	7.5
	psig	110	110	110
Product Flow rate[1]	m3/h	8.4	8	7.9
	scfm	5.3	5.1	5
Product Pressure	bar(g)	6	6	6
	psig	87	87	87
Feed Air Consumption[1]	m3/h	89.2	88.8	88.3
	scfm	56.3	56.1	55.8
Min. Air/O2 Receiver[1]	litre	650	600	600
	gallon	172	159	159
Product Dew Point[3]	°C/°F		≤ -60 / -76	
Sound Level L_{eq}	dB(A)		<77	

[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

- Up to three (3) Dual Bank Unit(s) with Cycle Time Shifting
- Feed Air Unit
- Supporting Frame for Air Filters
- Oxygen Analyser (already included with MDD version)
- Electronic Product Flow Meter
- Feed Air / Product Moisture Analyser
- Feed Air / Product Temperature Transmitters
- Oxygen Sterile/Bacterial Filters
- Telemetry for Remote Monitoring
- Oxygen Booster & Cylinder filling System
- MedOx External Medical Oxygen Gas Analysing System
- Central Supervision System for ISO 7396-1 Installation

Conformity & Certifications

93/42/CE	(Medical Device Directive – Class IIB)
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

W	D	H		Weight	
536	1363	1750	mm	700	kg
21.0	54.0	69.0	in.	1543	lb

Product protected by international patents
Nr. EP2047897A1, EP2047897B1, EP2052769A1, EP2052769B1

Feed Air Requirements

Supply Pressure	7.5	bar(g)
	110	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″
Oxygen Send / Oxygen Return/Outlet (5)	G 1″
Oxygen Off-Spec (5)	G ½″

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

MADE IN ITALY

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