NOVAIR | NOXERIOR GAS SYSTEMS

OXYGEN GENERATOR

OXYPURE OP 60 Eco-line

On Site Oxygen Production
Up to 95% purity

NOVAIR NGS introduces Oxypure, the high efficiency oxygen generator based on PSA technology. With a wide range of capacities and varied purity levels, Oxypure meets the needs of all types of industries, with increased profitability.

Rev A 04/2021

Benefits

- Flow rate: 20 to 24.1 m^3/h
- Low operating pressures, no hazardous storage
- Low operating costs, easily expandable
- Fully automatic and unattended operation
- Process monitoring & start/stop through Webserver

Designed for

- Packaging and processing of food
- Laser cutting
- Metal inerting
- Laboratories / chromatography
- Electronics
- Inerting chemistry & Pharmacy

OXYPURE OP 60 Eco-line

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On Site Oxygen Production up to 95%

Technical Specifications

Oxygen Content		95 vol,%	93 vol,%	90 vol,%
Feed Air Pressure	barg (g)	7.5	7.5	7.5
	psig	110	110	110
Product Flow Rate (1)	m³/h	20	22.5	24.1
	scfm	12.6	14.2	15.2
Product Pressure	barg	6	6	6
	psig	87	87	87
Feed Air Consumption (1)	m³/h	253	273	275
	scfm	160	172	174
Min. Air Consumption Air (2)	liter	1350	1450	1500
	gallon	365	392	405
Min Air Receiver O_2 (2)	liter	800	900	950
	gallon	216	243	257
Dew Point (3)	°C/F	≤-40 / -40		
Sound Level	Leq dB(A)	<80		

Peripheral Equipments

- Up to 1 additional PSA unit
- Feed air unit
- Set of intake air filters
- Oxygen analyser with zirconium-oxide sensor
- Electronic product flow meter
- Feed air / product moisture analyser
- Feed air / product temperature transmitters
- Oxygen sterile filters
- Telemetry
- Nitrogen Booster & Cylinder filling System

Feed Air Requirements

Supply Pressure	7.5 / 10.0	barg
	110	psig
Supply Temperature	5 / 45	°C
	41 / 113	°F
Min.Air(4) Quality	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 oxygen generator not covered under warranty.

Power Requirements

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

Key Features

- Set of external feed air filters
- Adsorber Vessels according to 2014/68/UE (ASME VIII Div. 2 as option)
- Pneumatic Valves
- Process piping in galvanized carbon steel
- Maintenance-free exhaust silencers
- Air and oxygen flow regulation
- Local instrumentation
- Control system with Siemens SIMATIC® PLC and Siemens Graphical Touch Panel HMI
- Data logging
- Standard Profinet Industrial Ethernet Interface
- Pressure switch for automated idle-mode
- Oxygen pressure sensor

(1) *Indicated flow rates are valid for operation of the generator at atmospheric conditions 20 °C / 60 °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.*

Conformity & Certifications

2014/68/UE	Pressure Equipment Directive
2014/30/UE	Electromagnetic Compatibility
2006/42/CE	Machinery Directive
2014/35/CE	Low Voltage Directive

Connexions

Feed Air Inlet	G 1"
Oxygen Send	G 1
Oxygen Return	G 1
Oxygen Outlet	G 1

Dimensions & Weight

L	l	H		Weight
1450	1000	2375	mm	1500 kg
57	39	94	in.	3307 lb

Installation Requirements

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

MADE IN ITALY

NOXERIOR s.r.l. : Via Genova, 5 - 58100 Grosseto - ITALY : +39 0564 45 8041/42 : contact@novair-ngs.com

NOVAIR | NOXERIOR GAS SYSTEMS

OXYGEN GENERATOR

OXYPURE OP 80 Eco-line

On Site Oxygen Production
Up to 95% purity

NOVAIR NGS introduces Oxypure, the high efficiency oxygen generator based on PSA technology. With a wide range of capacities and varied purity levels, Oxypure meets the needs of all types of industries, with increased profitability.

Rev A 04/2021

Benefits

- Flow rate: 37.6 to 42.9 m^3/h
- Low operating pressures, no hazardous storage
- Low operating costs, easily expandable
- Fully automatic and unattended operation
- Process monitoring & start/stop through Webserver

Designed for

- Packaging and processing of food
- Laser cutting
- Metal inerting
- Laboratories / chromatography
- Electronics
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OXYPURE OP 80 Eco-line

NOVAIR NOXERIOR GAS SYSTEMS

On Site Oxygen Production up to 95%

Technical Specifications

Oxygen Content		95 vol,%	93 vol,%	90 vol,%
Feed Air Pressure	barg (g)	7.5	7.5	7.5
	psig	110	110	110
Product Flow Rate (1)	m³/h	37.6	39.5	42.9
	scfm	23.8	25.1	27.1
Product Pressure	barg	6	6	6
	psig	87	87	87
Feed Air Consumption (1)	m³/h	477	479	489
	scfm	301	303	309
Min. Air Consumption Air (2)	liter	2500	2500	2500
	gallon	675	675	675
Min Air Receiver O_2 (2)	liter	1450	1550	1650
	gallon	392	419	446
Dew Point (3)	°C/F		≤-40 / -40	
Sound Level	Leq dB(A)		<80	

Peripheral Equipments

- Three (3) slaves unit
- Feed air unit
- Set of intake air filters
- Oxygen analyser with zirconium-oxide sensor
- Electronic product flow meter
- Feed air / product moisture analyser
- Feed air / product temperature transmitters
- Oxygen sterile filters
- Telemetry
- Nitrogen Booster & Cylinder filling System

Feed Air Requirements

Supply Pressure	7.5 / 10.0	barg
	110	psig
Supply Temperature	5 / 45	°C
	41 / 113	°F
Min.Air(4) Quality	Class 0.4.0 to ISO 8573.1	

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Power Requirements

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

Key Features

- Set of external feed air filters
- Adsorber Vessels according to 2014/68/UE (ASME VIII Div. 2 as option)
- Pneumatic Valves
- Process piping in galvanized carbon steel
- Maintenance-free exhaust silencers
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2014/35/CE	Low Voltage Directive

Connexions

Feed Air Inlet	G 2″
Oxygen Send	G 1 1/2″
Oxygen Return	G 1 1/2″
Oxygen Outlet	G 1 1/2″

Dimensions & Weight

1850	1200	2271	mm	2500 kg
73	47	109	in.	5511 lb

Installation Requirements

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

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