



BERGAS
Gas & air compression solutions



O₂

CATALOGUE
Oxygen
Generation
2022

HIGH QUALITY SELF-PRODUCED OXYGEN

OXYGAS OG is a range of modular nitrogen generators with PSA technology specifically designed to satisfy a large variety of industrial applications. At all times you will have absolute control of your oxygen production through:

PLC supervision system - ensures continuous control over purity, pressure and flow rate of nitrogen produced through the functions of energy saving, parameter monitoring and alarms as well as the creation of reports that can be easily exported via USB port.

Zirconium oxide oxygen analyzer - continuous measurement of the oxygen content in the nitrogen flow, certifying its correct purity at all times.

Self-cleaning - the system ensures that the correct purity of oxygen is always provided online by discharging any non-specified gas into the atmosphere.

4.0 Ready - the generator can easily interface via an Ethernet port or Wi-Fi router to a corporate monitoring and control network in compliance with the requirements of industry 4.0.

Pressure regulation - each generator is equipped with internal pressure regulator that allows outlet oxygen flow at constant pressure.

Electronic flow meters - accurately measure the flowrate of inlet air or outlet oxygen.

Moisture analyzer - specially designed for applications that need to continuously monitor the moisture content of the produced oxygen.

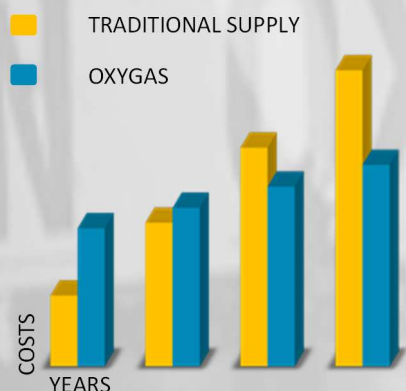
Temperature transmitters - accurately measure the temperature of the inlet air or outlet oxygen.

SAVE WITH OXYGAS OG

With traditional Oxygen supply methods, the user incurs hidden "extra-costs" in addition to the cost of the oxygen used which contribute to drastically increase the final price:

- rental of cylinders / cylinder bundles / tanks
- delivery and administration charges
- liquid "boil-off" vents into atmosphere
- more than 10% of each cylinder or cylinder bundles is returned unused to the supplier

By accounting for all these costs, Oxygen self-production through OXYGAS OG generators is the most convenient solution on the market. Depending on the conditions of use and consumption, the return on investment is guaranteed within 6-48 months.



OXYGAS SERIES

RELIABILITY

Oxygen always available with direct production and back-up

AUTONOMY

No more long-term leases or contracts with traditional technical gas suppliers

SAVINGS

Cost reduction up to 90% compared to supply in cylinders or tanks

MODULARITY

You can easily increase the flow of produced oxygen with additional modules

SEMPPLICITY

Intelligent, fully automatic and easy to use PLC based system

SAFETY

No cryogenic tanks or cylinders to move

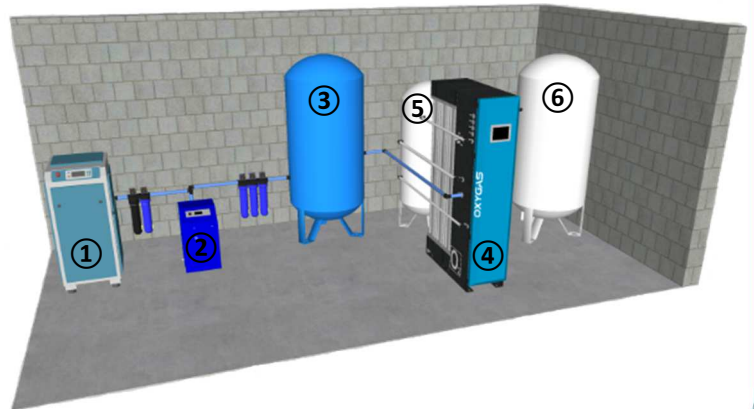
ECO-FRIENDLY

Reduction of greenhouse gas emissions and carbon footprint

OXYGEN PRODUCTION PLANT - OXYGAS

1 - AIR COMPRESSOR	4 - OXYGEN GENERATOR
2 - COMPRESSED AIR TREATMENT	5 - O ₂ PROCESS TANK
3 - COMPRESSED AIR TANK	6 - O ₂ FINAL TANK

ON REQUEST: medium and high pressure booster, cylinders filling station, turnkey projects on skids or in containers, customized solutions



PERFORMANCE

OXYGAS - Oxygen Flowrate ⁽¹⁾ and purity ⁽²⁾			
Model	95±1%	93±3%	90±3%
OG-5	1,2	1,3	1,4
OG-10	2,0	2,1	2,2
OG-20	4,0	4,2	4,4
OG-30	5,7	6,0	6,3
OG-40	7,5	7,9	8,3
OG-50	9,3	9,8	10,2
OG-60	11,0	11,6	12,1
OG-70	12,6	13,2	13,9

FEED AIR REQUIREMENTS

Pressure	5-7,5 bar-g
Temperature	+5°C / +45°C
Air quality	ISO 8573-1:2010 Class 1.4.1

ELECTRICAL REQUIREMENTS

Power supply	110-230 V / 50-60 Hz
Installed power	0,3 kW (generator)

CONNECTIONS

Feed air inlet	G1"
Oxygen send	G1"
Oxygen return	G1/2"
Oxygen outlet	G1/2"

CONFORMITY & CERTIFICATIONS

2014/68/UE	PED - Cat. II
2006/95/UE	Low voltage directive
2006/42/UE	Machinery directive
2004/108/UE	Electromagnetic compatibility

⁽¹⁾ Oxygen flowrates are expressed in Nm³/h (tolerance ± 5%) and are valid for generator operating at atmospheric conditions +20°C, 1013 mbar and 60% RH, 7,5 bar-g inlet air feed pressure. Definition of Nm³ based on reference conditions of 0°C and 101.325 Pa. For performance in other conditions please contact the manufacturer. The manufacturer reserves the right to change the data without any prior advise.

⁽²⁾ Oxygen purity is indicated as the content of oxygen at the outlet of the generator.

APPLICATIONS

AQUACULTURE



WATER TREATMENT



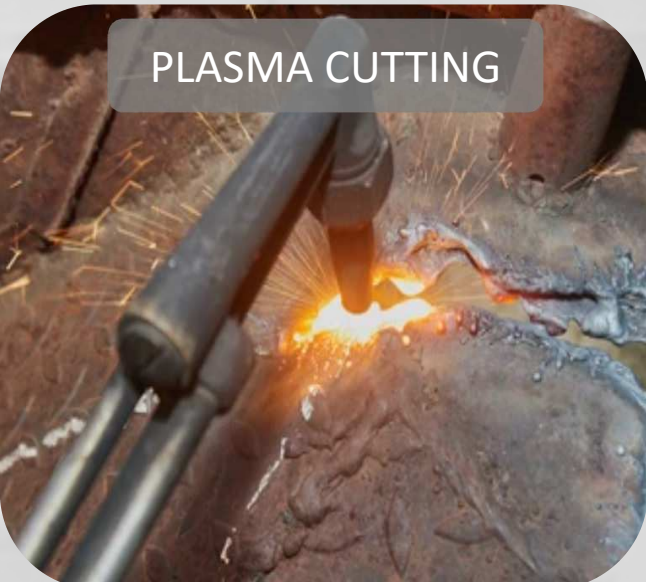
OZONE PRODUCTION



GLASS



PLASMA CUTTING



FLAMING



OXYGEN SERIES

METAL CASTING



VETERINARY



MEDICAL



CYLINDER FILLING



OXYGEN IN OXY

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