



...solution is in the air

Oxygen Generators – O₂

Produce Your Oxygen On-Site With Lower Costs!

Flexibility

- Produce oxygen when and wherever you need it
- Be your own supplier / Be self-sufficient
- Fixed and portable solutions
- Solutions that fit your needs

Economy

- Low installation and running costs
- Own production – No lack of supplies
- No excess oxygen in stock
- No transport or delivery fees
- Fast payback time on initial investment

Easy To Use

- Completely automatic production
- Minimum maintenance
- Easy to install and operate
- Production of oxygen on demand night and day

Gaia ehf. Offers:

- Double oxygen production system. 100% operation reliability if electricity is available
- Monitoring and alarm systems for oxygen production and use
- Advanced control system in which you can control the use of oxygen precisely for each consumption area
- Installation, service and maintenance on oxygen generator systems
- Consultancy regarding oxygen generator systems and system design.
- Consultancy on oxygen distribution and consumption systems

Customers

- Aquaculture
- Sewage companies
- Process plants
- Septic tank users
- Various users of ozone equipment
- ...and many others

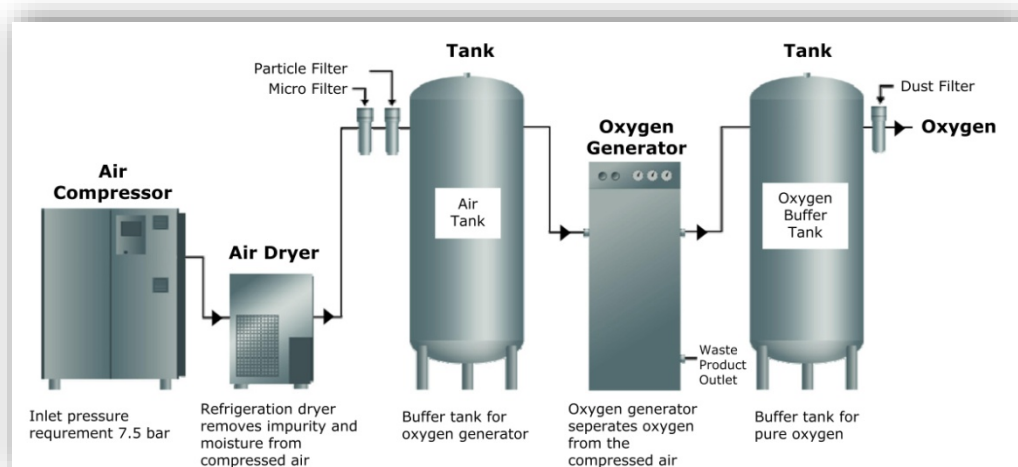
Gaia ehf. offers a wide selection of oxygen generators, both standard solutions and customized solutions that fit your needs. Most of the generators that Gaia ehf. sells use PSA technology (Pressure Swing Adsorption), which has proved very reliable, if all the components of the air system are correctly maintained.

A standard oxygen generator:

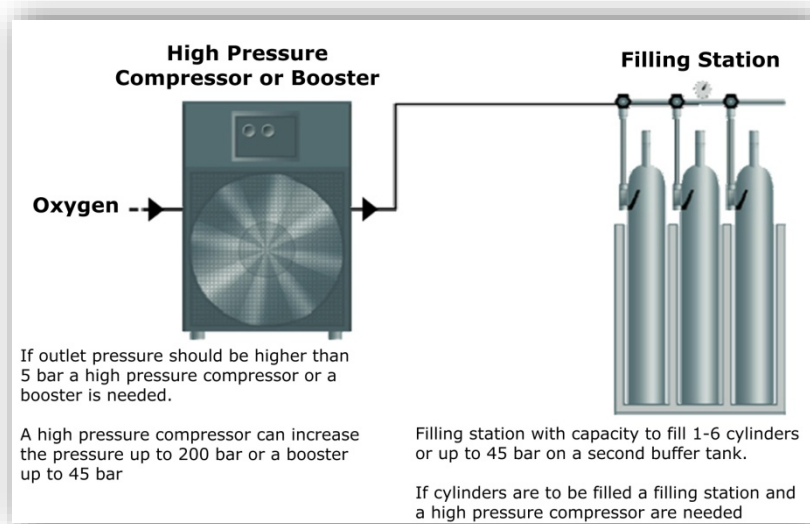
- has a capacity between 0,8 Nm³/hour and 200 Nm³/hour
- generates oxygen with purity of minimum 90%
- has up to 4 bar outlet pressure

Most of the standard oxygen generators can also deliver oxygen with purity up to 95%. Gaia ehf. also offers customized oxygen generators with a larger capacity.

A complete solution includes air compressor, air dryer, filters, compressed air buffer tank, oxygen generator and oxygen buffer tank.



As optional equipment, Gaia ehf. offers boosters and high pressure compressors that compress the oxygen up to 200 bar and filling stations for cylinders.





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Ozone Generators – O₃

Produce Your Ozone On-Site With Lower Costs!

Why Ozone?

- Ozone is environmentally friendly
- Ozone is a very powerful disinfectant
- Ozone is produced on-site and is therefore not a stock product
- No transport and delivery costs
- Own production means no shortage of stock
- Ozone can be used for different purposes – does not leave chemical residue
- Short payback time for initial cost
- Favorable installation and running cost

Example of Use

- Disinfects water instead of chlorine chemicals
- Kills bacteria in food and on surfaces
- Reduces or eliminates odour
- Disinfects sewage systems and septic tank water

Easy to Use

- Completely automatic production
- Minimum maintenance
- Easy installation and operation
- Ozone production 24 hours a day – always!

Gaia ehf. offers...

- Advanced operating system that controls precisely usage of ozone each location
- Monitoring and alarm systems that monitors ozone production and usage
- Installation and turn-key solutions
- Consultancy regarding selection of equipment and design of feeding and distribution systems
- Consultancy on design of new systems and improvement on older systems
- Service contracts on fixed payment terms that ensures minimum running costs, reliable running and extended equipment service life
- Maintenance and regular inspection

Users and usage

- Aquaculture
- Food processing industry
- Waste water treatment
- Fish drying
- Cleaning systems in ships
- Laundries and hotels
- Communities
- ...and many others

Gaia ehf. offers a wide selection of ozone generators, both standard solutions and customized solutions that fit your needs. All the ozone generators that Gaia ehf. offer requires oxygen. Various kinds of optional equipment and monitoring systems are also available.



Cost Effective Solutions

Gaia ehf. offers the customers beneficial and environmentally friendly solutions for cleaning water and air. Gaia ehf. has experience and knowledge in the field of ozone and the high-tech equipment that Gaia ehf. offers has a long reliable history.

Consumes Minimum of Oxygen and Energy

With an automatic control unit the amount of ozone produced is regulated corresponding to consumption. This makes the Gaia ehf.'s ozone generator unique, demanding up to 70% less energy than equivalent ozone generators on the market today.

Alternatives in Productivity

Gaia ehf. designs ozone systems in relation to customer's needs and usage. Four different basic ozone generators are available from 100g - 900g ozone pr. hour. Combinations of two or more generators increases productivity up to 10 kg/hour or more.

The ozone generator can produce ozone with a very high concentration or more than 300g O₃/Nm³O₂, which equals over 20 wt % with an absolute gas pressure of 3.2 bar. High concentration increases dissolved ozone in water which means that the water has increased disinfection capabilities. A high ozone gas pressure enables ozone transport over longer distances to the application area and makes it easier for the ozone to dissolve in water under increased pressure.

Monitoring and Alarm Systems

Gaia ehf. offers advanced alarm systems that monitors fluctuations in ozone production and ozone leakages. The system sends information and an alarm code with an SMS to selected numbers.

Handheld Instruments

Gaia ehf. sells and services:

- Oxygen meters (O₂)
- Ozone meters (O₃)
- Salt meters (NaCl)
- Acidity/Alkalinity meters (pH)
- Carbon dioxide meters (CO₂)