

Aquatec Ozone O₃ Generator

Aquatec Solutions Oxygen O₃ generators are manufactured by an sub-suppliers with more than 20 years of experience and a record of more than 150 sets of generators for a wide range of applications.

With Aquatec Ozone O₃ generator you can

- Sterilize intake-water
- Remove brown color by adding small quantities of ozone
- Remove bacteria's or control by adding ozone

PRODUCT FOCUS: OZAT® CFS



Equipment connections for:

- Cooling water (inlet & outlet)
- Feed gas inlet
- Ozone gas outlet



Main power board for rectification and inversion



Operating touch pad with display



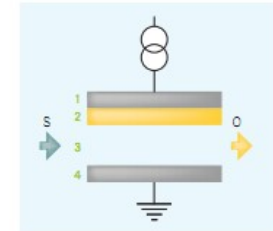
Ozone generation module showing the HV, cooling water and gas connections

TECHNICAL

ACTION / THEORY

The company and products

Ozonia designs and manufactures the largest ozone generators in the world and realises turnkey ozone plants with capacities of several hundred kilos per hour with an in-house IGBT medium frequency power supply unit and IGS™ dielectric technology. Ozonia offers a unique professional expertise and over thirty years of experience in ozone generation. A widely proven and reliable medium frequency technology results in very high ozone yields from both oxygen and air. MEMBREX™ electrolytic cells for pure water systems extends the range of Ozonia's ozone products and services. With thousands installations around the world, several of them over 250 kg/h, Ozonia offers real international experience.

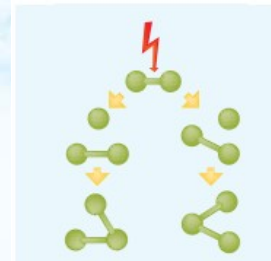


- S Feed gas (oxygen or air)
- O Gas containing ozone
- 1 HV electrode
- 2 Dielectric
- 3 Discharge gap
- 4 Earth electrode

HOW DOES IT WORK?

Large-scale ozone generation by dielectric barrier discharge

Ozone is produced on a commercial-scale by means of silent electrical discharge - the result of a high voltage alternating field acting between two electrodes separated by a dielectric and a narrow gap. The feed gas, usually air or oxygen, flows through the narrow gap where the discharge occurs. The ozone generator's electrodes are two concentric tubes, an outer tube made of stainless steel and an inner electrode formed by a layer of metal on the inside of a dielectric. The metal electrode is cooled by water flowing around the outside of it. The ozone generator is essentially a drum-like vessel containing many such electrode pairs, and outwardly resembles a heat exchanger.



Ozone is formed by splitting oxygen molecules (O₂) into atomic oxygen (O), which then recombine with other oxygen molecules to produce ozone molecules (O₃).

Product Focus/ Performances

- IGS™ dielectrics
- Optimised mechanical design
- State of the art IGBT power supply
- Low harmonic current rejection
- Low power consumption
- High ozone concentration
- Robust industrial quality
- Compact dimensions
- User friendly interface
- Larger units with optional bus
- Low maintenance
- High Performance

Please contact Aquatec Solutions for further details or see our website www.aquatec-solutions.com