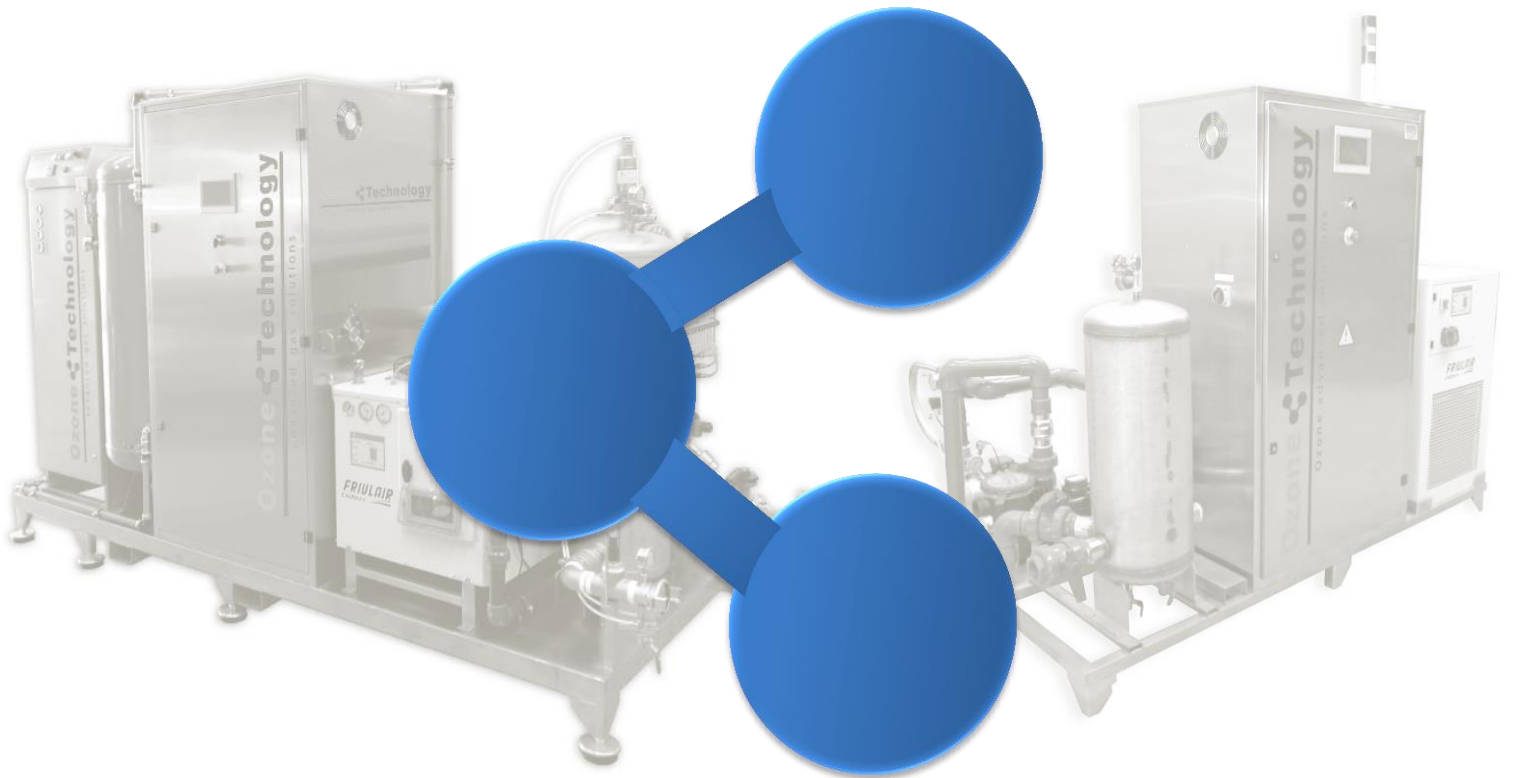


# Ozone Technology

S o l u c i o n e s   O z o n o

*Integrated completed solutions*



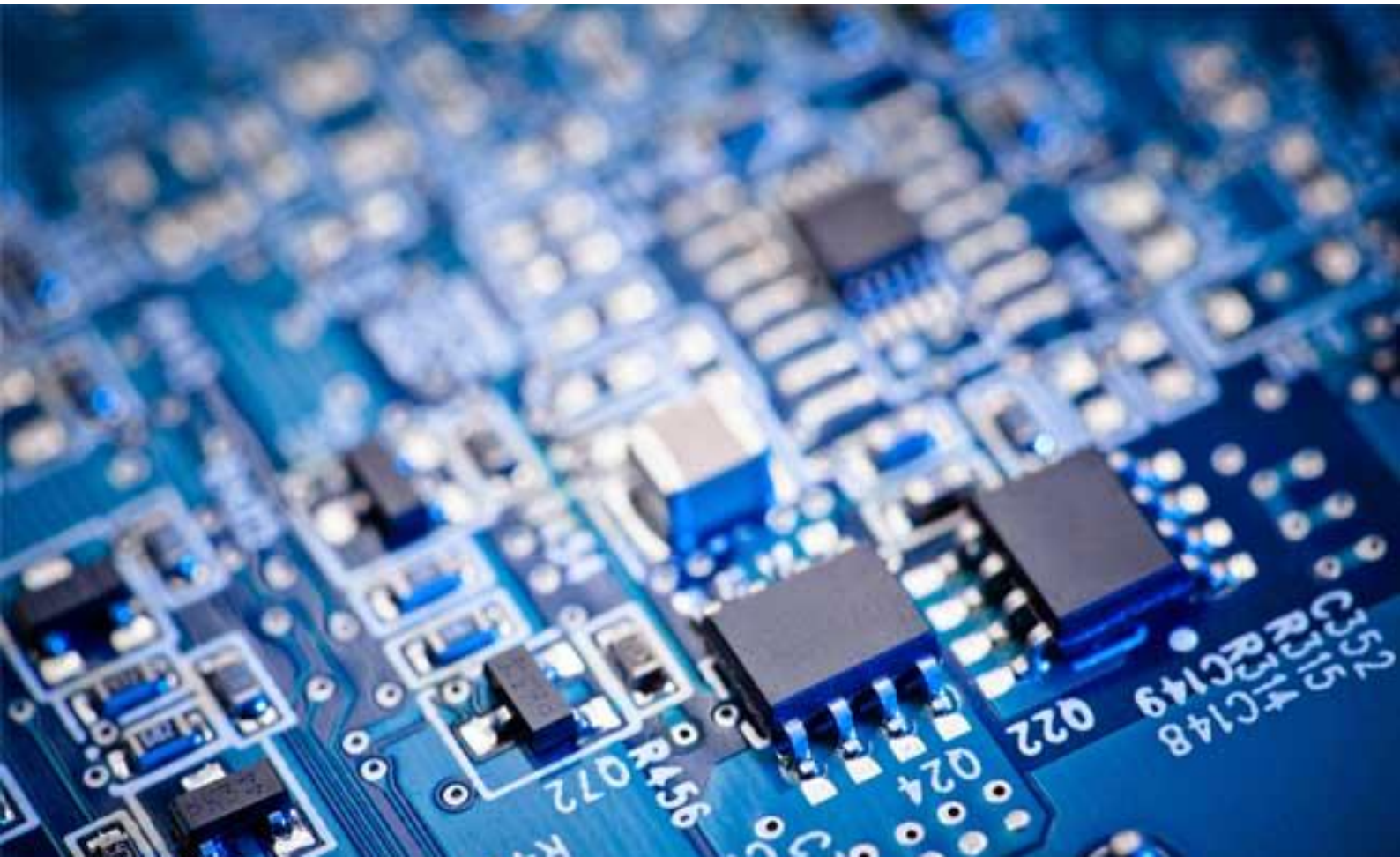
[www.ozonetechnology.es](http://www.ozonetechnology.es)

## **Ozone Technology: Innovation, development, sustainability**

Ozone Technology is a Spanish company with proprietary technology for the manufacture of ozone generators.

Ozone Technology is the evolution of a team of experts in different sectors with over 30 years implementing ozone in different fields and applications.

After years of implementation and knowledge in the field of ozone and being knowledgeable and users, there was only applying the acquired knowledge and experience to manufacture our own equipment to get the best returns.





## Ozone Technology: Innovation, development, sustainability

Technology Ozone is formed by a team of engineers who design:

- The mechanical part.
- Fluid mechanics.
- Power electronics.
- Chemical engineering for each specific application.
- The part of software development and programming

From Ozone Technology you can have a counseling with a rapid and effective response through the multidisciplinary team, which includes virtually all required to bring each team an immediate adaptation to the application required fields.

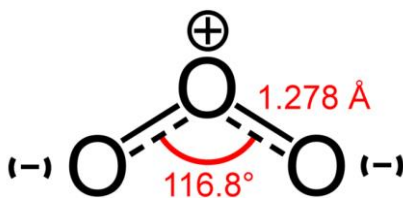


## Ozone Technology: Ozone a strong oxidant and natural disinfectant

### Ozone is a strong oxidant.

Ozone is an unstable molecule, consisting of three oxygen atoms formed to dissociate the two atoms composing the oxygen gas.

Each oxygen atom released binds to another molecule of oxygen gas (O<sub>2</sub>) to form ozone molecules (O<sub>3</sub>), causes instability when in contact with oxidizable substances act as disinfectant, among these substances we can include viruses, molds and bacteria susceptible to oxidation as well as organic or inorganic compounds such as metal ions, plastics or rubbers.



### The Ozone natural disinfectant.

In oxidation reactions, oxygen is transferred unstable releasing a large amount of energy, since the ozone molecule to the compound to be oxidized, the oxidation energy causes rupture of the membranes of microorganisms by destroying their DNA and RNA (genetic material) It is oxidized and destroyed, ending its biological activity.

## **Ozone Technology:**

### **Ozone a strong oxidant and natural disinfectant**

The first time that ozone was used for water treatment for the purpose of disinfection was in 1893. Since then, it has been gaining in popularity and is used increasingly by industries and individuals.

The main advantages of ozone for use in water are:

- Eliminates odors and flavors from water.
- No residue.
- Compatible with other treatments.
- Does not affect the pH.
- No water colors.



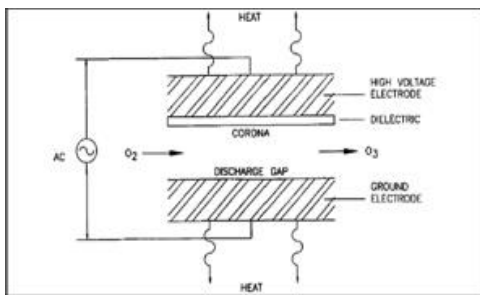
One of the main advantages of use is the conversion of ozone to oxygen, leaving no harmful chemical waste in the water.





## Ozone Technology: Proprietary technology, custom development

The devices are based on the experience of each application and a specific functionality for every need, not just the generator, but the peripheral and ancillary equipment needed in each application are taken into account when a particular application.



Ozone Technology produces its equipment with corona discharge arc technology with high frequency dielectric with ceramic or glass depending on the application, which allows us to extract the maximum performance depending on the final application and needs, in terms of efficiency, concentration and ozone gas flow.

## **Ozone Technology: Equipment for various industries and applications**

### **Agricultural and Food Sector**

Equipment for disposal of pesticides in fruit and vegetables.  
Equipment for disinfection of fruit (fungi and spores and molds).  
Equipment for the treatment of wastewater from fruit and vegetable industry.  
Equipment for the treatment of cameras - disinfection and odor removal.  
Equipment for the treatment and disinfection of floors.  
Equipment for the treatment of water for irrigation.  
Disinfection equipment for packaging and bottling.  
Equipment for slaughterhouses, cutting plants.  
Equipment for fish handling facilities.

### **Wine Industry**

Treatment and disinfection of barrels, pipes, stainless steel tanks and oak.

### **EDAR (sewage treatment stations)**

Treatment of waste water from industrial or urban.

### **Domestic Sector**

Micro-generators for domestic use (smells, disinfecting water, etc)  
Disinfecting utensils.

### **Automobile and Transportation Sector**

Equipment for disinfection and odor removal of all kinds of utility vehicles and professional drivers.

## Ozone Technology: Portable equipment applications in water and air



Ethylene destroys the fruit and slows the ripening retaining the flavor more fresh.

Disinfection treatment by shock or continued for cameras and different environments kinds.

Odor destruction, viruses, bacteria, spores and molds.



The team works at high concentrations and flow rates of 0.6 m<sup>3</sup> / h and gas turbine volume flow of 84 m<sup>3</sup> / h.

Mounted on stainless steel portable computer system includes all the elements together in a way that is very easy to install.



## Ozone Technology: Portable equipment applications in water and air

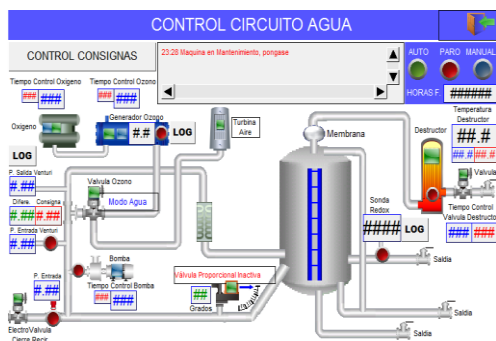


The team ozone injection of water and gas, has been designed for use in water stations, processing stations and irrigation of all kinds. The team has the ability to work in ranges of 10-40 l / min of water with automatic regulation.

This injection system ensures 4 ppm ozone dissolved ozone through innovative solutions and mixing ozone water contact in a short time and with great efficiency reaches more than 12 ppm dissolved ranges.

The team works at high concentrations and flow rates of 0.3 cubic meters / hour of gas.

Mounted on stainless steel portable computer system includes all the elements together in a way that is easy to install and use you only need to enter the settings on the touch screen on the front of the equipment so that the user you can use it without any problems.



## Ozone Technology: Equipment Ozone Generators

Modelo	Producción	Concentración
120	120 g/h	100 g/Nm3
180	180 g/h	100 g/Nm3
240	240 g/h	100 g/Nm3



## Ozone Technology: Equipment Ozone Generators

Model	Production	Concentration
320	120 g/h	100 g/Nm3
400	180 g/h	100 g/Nm3
480	480 g/h	100 g/Nm3
640	640 g/h	100 g/Nm3
800	800 g/h	100 g/Nm3





## Ozone Technology: Integral compact equipment tailored solution



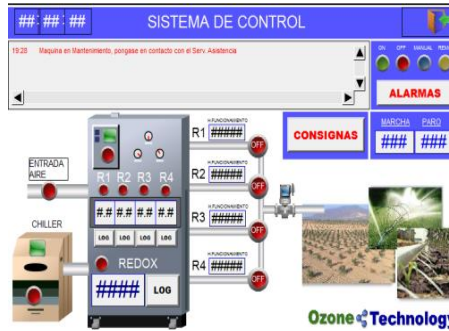
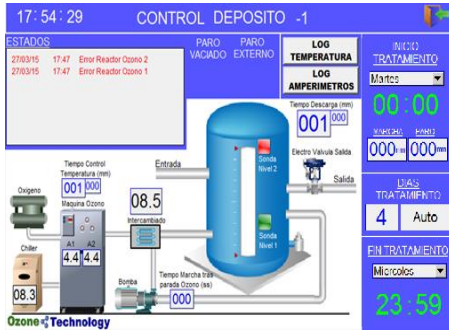
Compact integrated water purification plant, the equipment consists of ozone generator depending on the production requirement, central cooler and gas injection system water.

## Ozone Technology: Integral compact equipment tailored solution



Compact integrated water purification plant, the equipment consists of ozone generator depending on the need of production, central cooling and gas injection system to water, stainless mixing tank.

## Ozone Technology: Control and integration



- Controls SCADA / PLC.
- Multi Language Systems.
- Specific Automation.
- Historicization securities.
- Monitoring and reporting failures.
- Remote Management.
- Ozone Production Control.
- Reading External probes.
- Intuitive control screens.
- MODBUS standards.

Equipment with advanced control systems and monitoring developed by our engineering team, the management of these is done using intuitive touchscreens and advanced control systems, thereby adapting our equipment to specific customer needs.



## Ozone Technology: Facilities and Equipment





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