

How does ozone work?

Ozone is an unstable gas and has a very short life cycle.

When it comes into contact with organic substances such as bacteria, viruses or chemical molecules that come perceived as odors, an oxidation reaction takes place and the contaminants are destroyed.

During the process the extra oxygen atom tends to break down from the ozone molecule and a

bind to organic matter; in doing so it is consumed and nothing remains: no smell,

no bacteria, no extra atoms, just oxygen.

The Ministry of Health recognizes ozone as a "natural safeguard for the sterilization of environments contaminated by bacteria, viruses, spores, mites, molds, etc ... "(protocol no. 24482 of 31/07/1996).

The Ministry of Health with CNSA of 21/10/2010 has also recognized the use of ozone in air and water treatment as a disinfectant and disinfestant agent.

When it is essential to ensure radical sanitation and disinfection of an environment, one simple surface cleaning is insufficient and it is advisable to resort to the extraordinary effectiveness of ozone.

WHAT IS OZONE?

Ozone is O₃, a molecule made up of three oxygen atoms. Ozone is a low-density, colorless gas at normal temperature.

The ozone present in the stratosphere is essential for the protection it exerts on our planet, absorbing ultraviolet light and protecting it from the harmful action of the sun's rays if they were not filtered.

The ozone we can use is produced by a generator, it is an unstable, colorless and strong agent gas oxidant.

WHY USE AN OZONE GENERATOR?

Bacteria, spores, viruses, fungi, molds, germs, parasites, are not visible to the naked eye and usually threaten the environments in which we live, allowing pathogens to proliferate: ozone has the property to act in the air or water, sterilizing and sanitizing thoroughly without the use of chemicals, without leaving residues and acting in an absolutely ecological way.

Saturating an environment with ozone eliminates dangerous pests such as mites, fleas, ticks, lice, moths, cockroaches, mosquitoes etc. Moreover, being heavier than air, it easily penetrates into cavities, into small dens and in the ravines where insects and rodents nest, making the environment inhospitable to them.

Ozone is non-storable, non-transportable and has a limited life cycle. For this it is necessary produce it at the moment, as after a short time it returns oxygen, leaving a pleasant and real sense of cleanliness in the environment in which one has acted.

Why does it also strongly reduce bad smells?

Because the ozone molecules quickly bind to those of organic and inorganic substances oxidizing them and eradicating the cause.

How does it neutralize pesticides?

Ozone is capable of oxidizing many organic compounds into carbon dioxide, water and other harmless compounds. THE pesticides, upon contact with O₃, will be destroyed or transformed into CO₂, H₂O and other harmless compounds. In oxidation process, ozone can break down the molecular bonds of pesticides and decompose its formula chemical, turning it into a non-toxic substance. Pesticides have chemical structures similar to bacteria and fungi, through oxidation the ozone will destroy the structure and damage the chain link carbon.

Ozonated water?

It is created by adding ozone to the water. The oxidation powers of ozonated water make it a extremely powerful disinfectant with many applications.

Examples and sectors of use.

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Operators in the tourism and hotel sectors (hotels, restaurants, bed & breakfasts, holiday homes, canteens, refectories, bars, etc.) recognize great benefits in the use of our ozone generators, guaranteeing guests perfectly sanitized and odor-free environments: mattresses, carpets, rugs, armchairs and sofas, curtains, upholstery, wardrobes, blankets and duvets will always be hygienically renewed at each treatment, without damaging them or releasing residues.

Other important sectors of use are: nursing homes and rest homes, health facilities, waiting rooms, gyms, Beauty and Wellness Centers, Laundries, shops and food and wine storage warehouses, classrooms, cells refrigerators, tanks, offices (smokers?), school environments, basements etc.

Therefore ideal for cleaning companies, which will be able to offer an important plus to their customers by reducing at the same time the manpower.

Also indispensable for the sanitation of motor vehicles (vintage cars, taxis, ambulances, campers, caravans, food transport vans, food-trucks, buses and minibuses) and boats (from small cabin cruisers to yachts).