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La Soluzione Salina

Made in Italy

Commercial System Water Purification

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 Military facilities • Large multi-dwelling residential buildings • Office Buildings • Schools • Nursing Homes
 Leisure Centres

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ECO₃
 Ozone Pool Systems
 Made in Italy

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IperAqua
 SilverCopper Ionizers
 Effective Legionella Protection
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CopperPool
 Copper Ionizers for Swimming Pools
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Established in 2004, PISCINADIMARE.IT is a manufacturing company specializing in disinfection of water via electrolysis, copper and silver-copper ionizers and ozone, for swimming pools, drinking water, fountains and ponds. With its primary focus on environment first, PISCINADIMARE.IT guarantees the highest Italian quality, innovation and value.

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ECO₃
 Ozone Pool Systems
 Made in Italy

Ozone is a bluish gas with a pungent metallic odour. It consists of three atoms of oxygen instead of the two that form oxygen gas. It is very reactive and so is an effective oxidation agent, stronger than chlorine or bromine.

Ozone is an excellent oxidizing agent, thousands of times faster than chlorine or bromine at removing organic and inorganic contaminants and pathogens from the water. Organic contaminants such as perspiration, urine, creams, ointments, hair care products, cosmetics, nasal secretions, and creatine (a chemical normally found in blood and excreted into urine by the kidneys) are partially oxidized by ozone, reduced to nitrates, or flocculated and removed by the filters. Ozonated pool water will not foam, because ozone destroys foam causing organic compounds.



ACTION IN WATER	CHLORINE	OZONE
Environmentally Friendly	NO	YES
Organics Oxidation	MODERATE	HIGH
Water Half-Life	2-3 hours	20 min.
Operation Hazards:		
Skin Toxicity	HIGH	MODERATE
Inhalation Toxicity	HIGH	HIGH



Advantages of Ozone

Ozone is the strongest oxidant and disinfectant available for the treatment of aqueous solutions and gaseous mixtures. Although ozone is only partially soluble in water, it is sufficiently soluble and stable such that its oxidation or disinfectant properties can be fully utilized. After ozone oxidizes or disinfects, it decomposes into oxygen.

Ozone reacts with a large variety of organic compounds resulting in oxygen-containing organic by-products. Although ozone is the strongest oxidizing agent commercially available, it is safe to handle. The primary reason is that it cannot be stored and, therefore must be generated and used on-site. Ozone in its gaseous phase is a proven deodorizer for a variety of odorous materials.

In treating potable water, wastewater, and landfill leachate, ozone has the proven ability to convert biorefractory organic materials to biodegradable materials. As a result, combining ozone oxidation with subsequent biological treatment can produce water or wastewater with lower concentrations of problematic organic compounds more cost-effectively than either process used individually. Applying ozone to any medium (liquid or gaseous) does not add other chemicals.



Ozone is safe and inexpensive to use once the generating system is installed. Since ozone is generated on-site, from oxygen in the air, as needed, there is less storage and transportation of large quantities of hazardous materials. Ozone in pool water is not explosive and is not flammable. Ozone injection lines are under vacuum. If a leak in an ozone line should occur, air would leak into system rather than ozone leaking into the air. Ozone helps remove metals which can discolor water and stain pool surfaces, prevents calcification, and softens the water. Ozone has no effect on pH or total alkalinity, so fewer chemicals are needed to adjust pH and water balance. Ozone destroys oils and converts them to carbon dioxide (CO₂).



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