



# Prasinos **Tech** Innovations



Green Technology



Chemical-free Process



Circular Economy



Pollution Reduction



Clean Energy



Water Management & Recycling





# About Us

Prasinos Tech Innovations Pvt. Ltd is a clean tech startup pioneer in developing and promoting breakthrough scientific innovations and working towards translational research for **sustainable development and circular economy**.

SUSTAINABLE  
DEVELOPMENT GOALS



They are currently focusing in the area of Process Engineering and Intensification from a commercialization point of view, thereby attempting to connect the dots between know-why and know-how using their own patented technologies.

Prasinos consists of a unique team of professionals and technocrats having several decades of experience in the chemical industry, innovation and troubleshooting, technology development & commercialization.

At Prasinos, we are committed to deliver innovative technological solutions considering the environmental regulations, which are practically cost-effective, energy-efficient, and eco-friendly.



Research at Prasinos Tech drives cutting-edge solutions through exploration of emerging technologies such as Ozone Systems, Hydrodynamic Cavitation, Ultrasound & Sonochemistry, Nanobubble Technology, Renewable Energies. Our focused R&D team transforms innovative ideas into real-world applications, ensuring our services stay future-ready and impactful for clients.

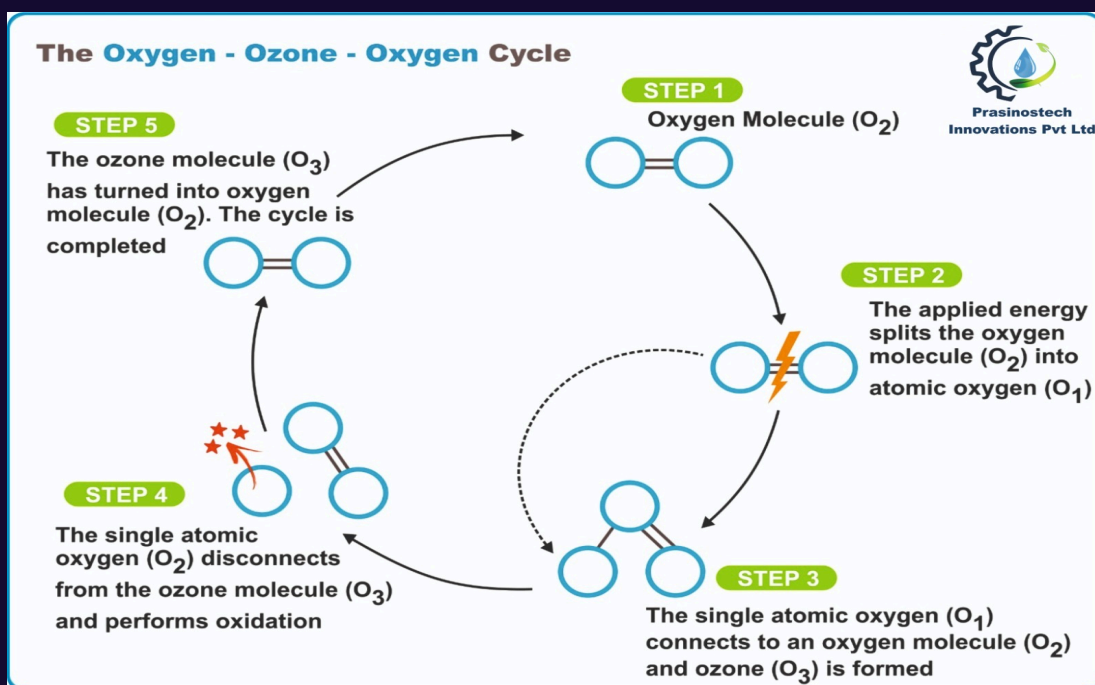
At Prasinos, we are committed to provide uninterrupted support with our services available 24/7. This ensures that our clients can access expert assistance, guidance and solutions whenever they need them, regardless of time zones or business hours. Whether it's troubleshooting maintenance, or critical updates, our dedicated team is always on standby, ensuring smooth and efficient operations for your business around the clock.



# Green Technology

## What is Ozone?

Ozone, often referred to as "active oxygen," is a remarkable natural element and a precious gift to humanity. It is a triatomic allotrope of oxygen, created through the recombination of oxygen atoms. This colorless gas, characterized by its distinct pungent odor, can be detected even at low concentrations of 0.02 ppm. As a powerful oxidant, ozone is over 3,000 times more effective as a disinfectant than chlorine. Ozone offers a comprehensive solution to a wide range of water treatment challenges, addressing issues like bacteria, viruses, algae, fungi, color, odor, COD, and BOD. It simultaneously disinfects, oxidizes, deodorizes, and decolorizes. Produced through an electrical discharge in dry air or pure oxygen, ozone is generated on-site, as it quickly decomposes into elemental oxygen within a short time.



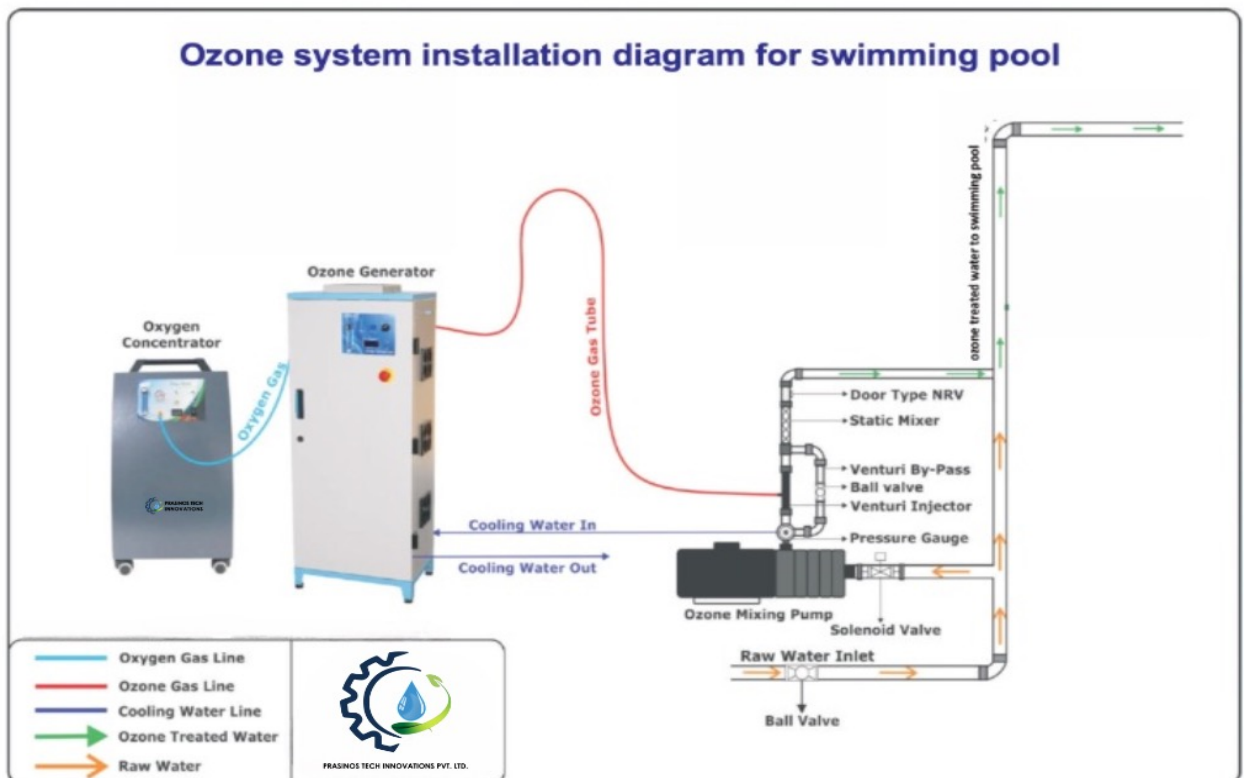
## Benefits of Ozone

- ✓ Ozone is 51% more potent than chlorine in breaking down bacterial cell walls.
- ✓ It eliminates bacteria up to 3,000 times faster than chlorine.
- ✓ As the most powerful broad-spectrum microbiological agent, ozone offers unmatched effectiveness.
- ✓ It drastically reduces the reliance on chemical treatments.
- ✓ Ozone is a chemical-free alternative that leaves no toxic residues behind.
- ✓ Its only by-product is oxygen, making it a clean and eco-friendly choice.
- ✓ Even in low concentrations, ozone demonstrates exceptional disinfecting power.
- ✓ It is economical to produce and readily available in unlimited quantities.
- ✓ Ozone provides a safer workplace environment compared to conventional chemicals.
- ✓ It prolongs the shelf life of perishable food items.
- ✓ Ozone supports sustainable practices by enabling wastewater recycling.
- ✓ It lowers Total Organic Carbon (TOC), Chemical Oxygen Demand (COD), and Biological Oxygen Demand (BOD) in water effectively.



# Advantage & Benefits of Ozone in Swimming Pool

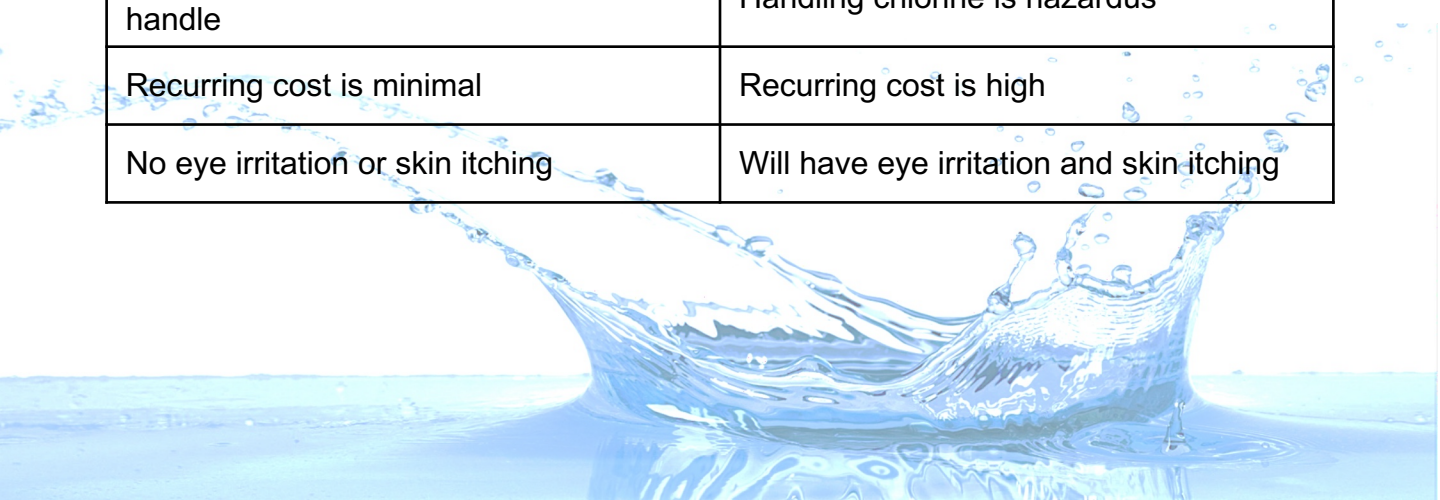
- Makes water non-carcinogenic (free from cancer-causing agents).
- Oxidizes trace metals present in the water.Reduces chlorine usage by up to 90%.
- Creates water that is healthier and safer for swimming.Enhances the water's clarity, giving sparkling appearance.
- Extends the lifespan of swimming pools.
- Effectively oxidizes residual organic matter
- Reduces Total Organic Carbon (TOC) levels.
- Leaves no harmful residues behind.
- Eliminates unpleasant odors and discoloration in the water.
- Removes chlorine odors and harmful by-products.
- Prevents eye irritation, skin rashes, and bleaching of hair and skin.
- Destroys Trihalomethanes (THMs) formed from chlorine reactions.
- Oxidizes impurities such as sweat, sputum, body oils, saliva, and deodorants.



# Comparison with Chlorination



Ozonation	Chlorination
One time Investment	Will have recurring cost
Removes odor from the water	Adds odor in the water
Reduction of COD & BOD in the water	No effects on either of them
Decolorizes the water	No effect on colour
Does not generate Chloramines in the water	Generates Chloramines (Hazardous)
Non hazardous - as there is nothing to handle	Handling chlorine is hazardous
Recurring cost is minimal	Recurring cost is high
No eye irritation or skin itching	Will have eye irritation and skin itching

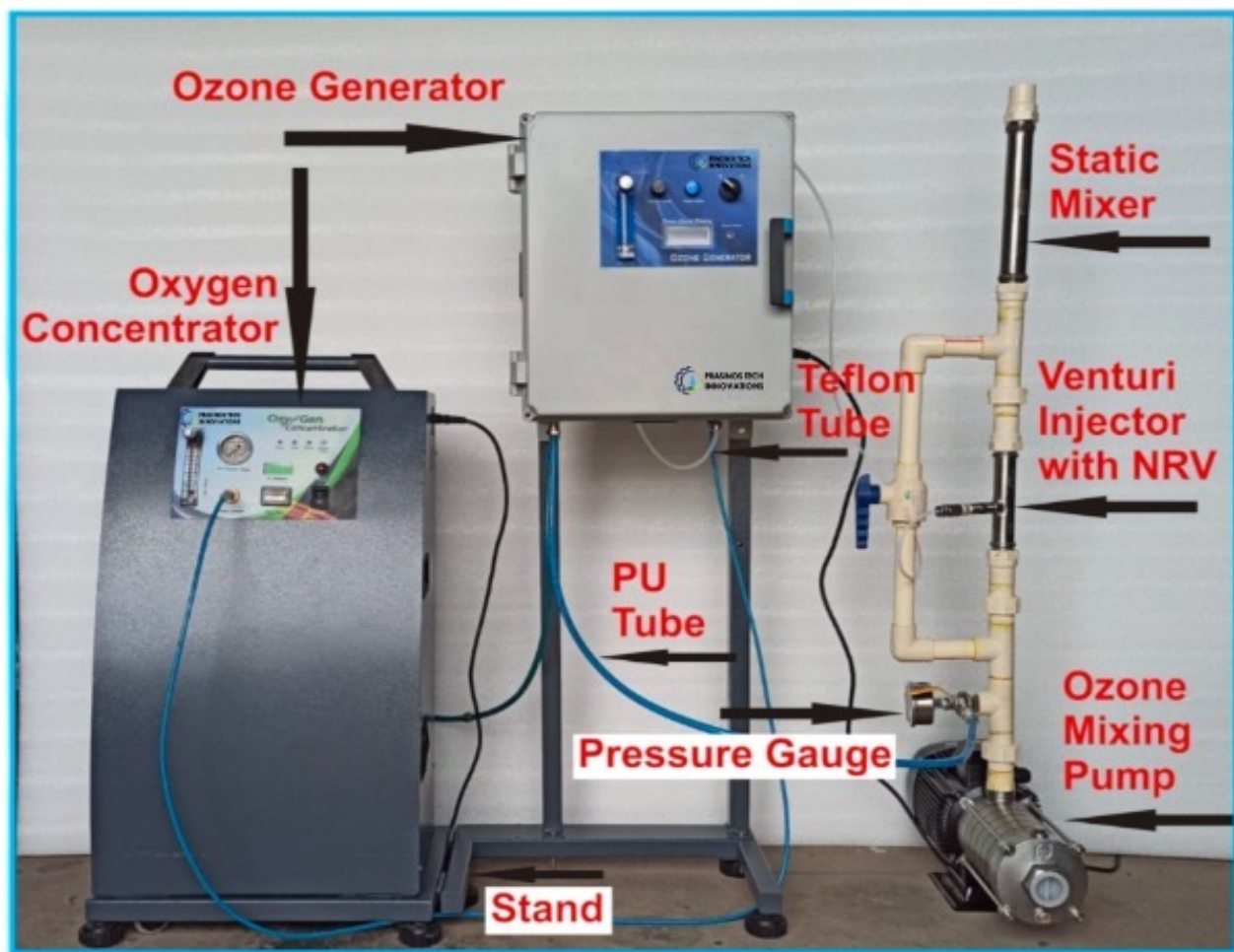




# Selecting an Ozone Generator for the Swimming Pool

We recommend choosing an ozone generator based on the German DIN 19643 standards. These standards, among other factors, consider a temperature-dependent ozone dosage. The ideal ozone generator model is determined by various parameters, including the swimming pool's chemical composition, bather load, dirt and debris levels, presence of mildew and mold, exposure to wind-borne contaminants, location, pump operating time, water temperature, and pool size.

## Our Ozone Systems for Swimming Pool



# Product features

- ❖ Smart LCD Display Monitoring & Controller
- ❖ Indication of Ozone Output Status
- ❖ Over Current Protection
- ❖ Over / Under Voltage Protection
- ❖ Safety Door Switch
- ❖ Emergency Stopper
- ❖ Water-Cooled Ozone Tubes
- ❖ Inbuilt Oxygen Source
- ❖ Plug & Play System
- ❖ Mild Steel Enclosure
- ❖ Over Temperature Protection
- ❖ Water Flow Sensor



**Reliable Ozone Output**



**Energy Efficient**



**Easy Maintenance**



**Compact System**



**Cost Efficient**



**Plug and Play**



# Ozone Applications

**Drinking Water**



**ETP**



**STP**



**Swimming Pool**



**Laundry Wash**



**Poultry Industry**



**Cooling Tower**



**Food & Beverages**



**Aqua Culture**



**Cold Storage**



**Pharmaceuticals**



**Household Ozone**



**Air Treatment**



**Odor Removal**



**Clean In Place**



## Our Prestigious Client



Lloyds Metals and  
Energy Limited



## Get in touch



**Manufactured & Marketed by**  
**Prasinos Tech Innovations Pvt Ltd**

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