



Oxyzone Air Pvt. Ltd.

**Ozonator, Air Purifier, RO,
UV, Ozone Cell, Manufacturer
& Repairing Services**

+91-9811980087
+91-8851886868

www.oxyzoneair.com support@oxyzoneair.com

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Oxyzone air pvt ltd founded in 2019, is a full-service provider of cost-effective and environmentally friendly technology. Our products and services are nationally present in many different applications.

Since 1965, Machine International has been the bottled water industry's leading supplier of ozone purification systems. That leadership is the result of having both the highest quality equipment and the individualized service that meets each customer's specific requirements. Our system's superior patented design assures consistent, reliable transfer of ozone into the water. It is designed for easy installation, operation and maintenance, giving you the confidence you need in a cost-effective way.

LAB TESTING

Our state of the art ozone lab testing facility is built to handle any request. We are able to perform ozone exposure testing on solids, liquids, and gases of all kinds. Our lab is also built to service customers with a need for water quality analyses such as BOD, COD, TDS, iron, manganese, chloride, pH, bromide, sulfate, sulfide, etc. We are committed to developing new and innovative processes for ozone technology. If you are unsure about the practice of a particular application, we will do all the testing required to verify if ozone is the answer for your problems. Oxyzone air will help you to determine the most

precise dose of ozone for your application. By so doing, we will help you to avoid overspending on oversized systems and still have enough ozone residual for your process. To ensure that your ozone system



SERVICE. REPAIR

To ensure that your ozone system has the longest lifespan, Oxyzone air has committed its service department be trained and ready to assist you. Some of our systems have been known to last for 20 years or longer. Our team offers client support via telephone, fax, email, or on-site service, regardless of the brand of ozone generator you require assistance with. Please ask us about our recommended service agreements. We are available to take a look at your equipment for repair needs as

soon as you need us. Our team is fully aware of the demand to have an operational system at all times. Whether you need us on-site or would like to ship your equipment to our team here, we are ready. Are you concerned about your or your fellow staff member's ability to operate the equipment? Our team can assist with or provide the appropriate training needed, all the way from Ozone 101 to system operation and maintenance

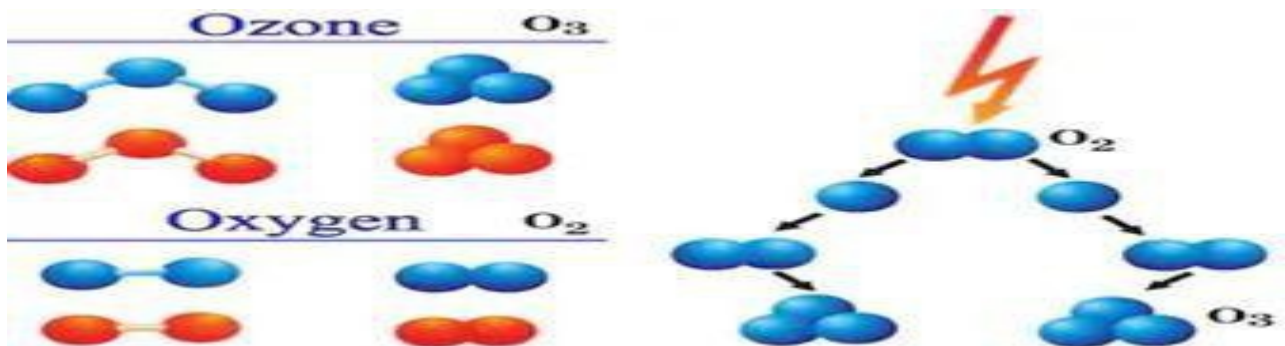


OZONE

Oxyzone air manufactures ozone generators that incorporate the most sophisticated technologies available. As one of the largest ranges of ozone generators from the small residential scale to some of the largest ozone systems in the world, these systems are sure to exceed expectations. All Oxyzone air systems have a variety of technical features developed to simplify installation and maintenance and offer the best integration into a current process. Ozone has been used in dozens of industries for many years to improve sanitation of surfaces and piping, raw water purification, air treatment and odor control, wastewater treatment, and much more. Being one of the world's most powerful oxidants, ozone is capable of accomplishing these tasks efficiently while leaving no residuals. Having the ability to eradicate an extensive list of viruses and bacteria, ozone has proven itself to be the most beneficial green technology available.

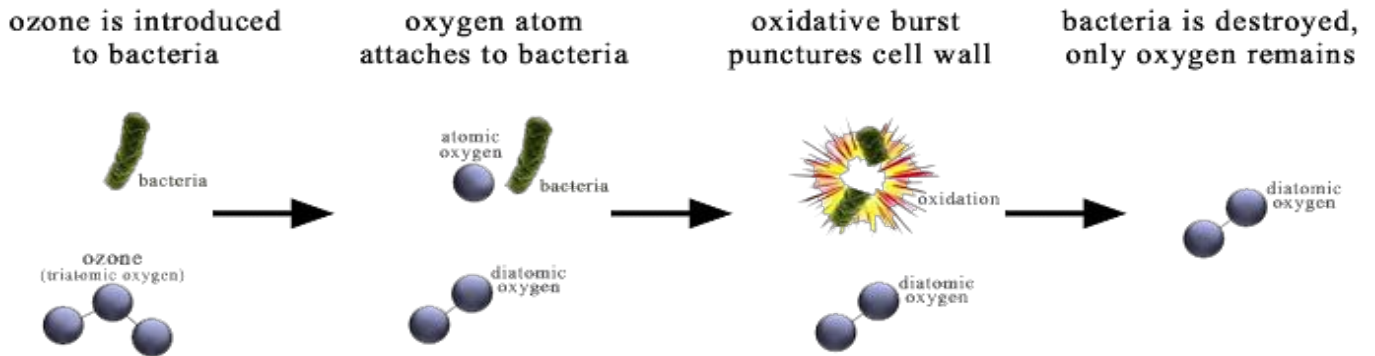
STRUCTURE

The **structure** of **ozone** has 3 oxygen atoms, but steric hindrance prevents it from forming a triangular **structure**, with each O atom forming the expected 2 bonds. Instead each Oxygen forms only 1 bond, with the remaining negative charge being spread throughout the molecule.



OZONE DESTROY

Ozone oxidizes the organic material in **bacterial** membranes, which weakens the cell wall and leads to cellular rupture. ... **Ozone** can effectively **kill** as well as Giardia, Cryptosporidium, parasites, fungi, molds and other microbes

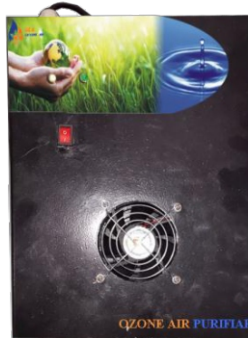


pathogens. Oxyzone air ' UV systems are used for disinfection, reuse, photochemical oxidation, and more. Our variety of UV products are sure to meet the needs of our customers from the residential scale to the large municipality and industrial sectors. UVGI (Ultraviolet germicidal irradiation) systems disinfect by inactivating pathogenic microorganisms, such as viruses and bacteria. In the UV-C light spectrum (200-280nm), the wavelength 254nm has been proven to be the most efficient wavelength to inactivate microorganisms by damaging the nucleic acids (DNA and RNA), which disrupts the organism's ability to perform vital cellular functions. In normal applications, UV has the advantage that no chemicals are added to the water being treated and that no disinfection by-products are formed. Due to the small footprint, the UV equipment can be easily integrated into most existing processes.



AIR TREATMENT & ODOR CONTROL

The sterilizing power of ozone is used against bacteria, microorganisms, fungi, and certain insect larvae. This characteristic proves ozone to be a much stronger, and greener, solution than hazardous chemicals. The environment for the incubation of any kind of bacteria are places where little ventilation exists, temperature is warm, and a degree of humidity prevails. mildew are destroyed by ozone. In addition to removing all of the impurities in the air, ozone is also a great treatment for odor control. Oxyzone air ' industry leading technology is provided all the way from small Residential & Commercial to large Industrial systems. These generators have proven to be cost-effective and efficient across dozens of industries.



OZONE ROOM PURIFIER

BOTTLED WATER

Superior water disinfection and bottle sterilization.

Ozone Treatment is the most frequently used disinfection process in the water Bottling industry. It effectively disinfects water, bottling equipment, bottles, air Above the water and bottle sealing caps, providing a reliable barrier to Contamination Throughout the entire process. Ozone also oxidizes minerals and removes, them From water, while leaving no residuals in your end product.

Oxyzone air industry Leading technology provides a cost- effective method to produce odor-free bottled Water with a true natural water taste and long storage stability.



DRINKING WATER TREATMENT

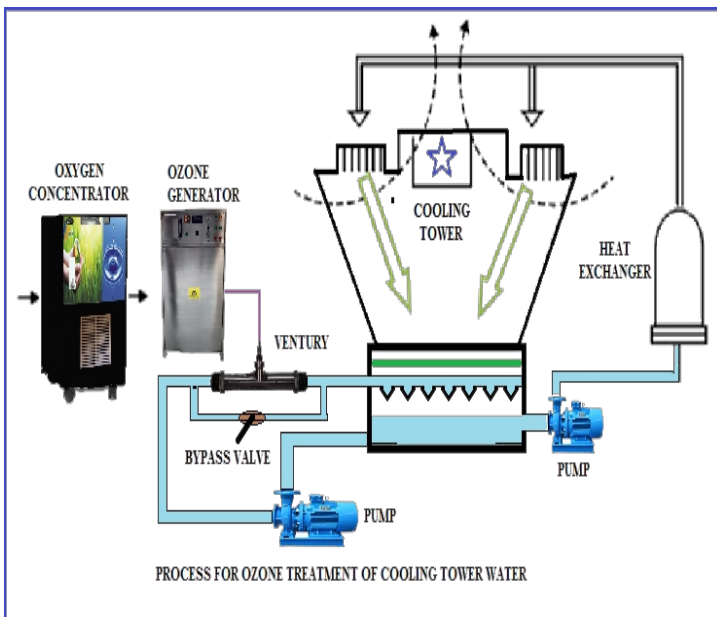
The most effective technology for treating contaminated drinking water



There are more than 280 major water treatment plants in the use of ozone in their processes. Drinking water treated with ozone kills or inactivates any pathogenic microorganisms including viruses, bacteria, and parasites and removes inorganic trace contaminants found in water systems due to pollution. Ozone treatment also reduces naturally occurring organic compounds such as humic acid and algal metabolites. Surface waters, including lakes

Ozone guarantees the most efficient heat transfer

Ozone has been proven a valuable tool as a biocide for the treatment of industrial and utility cooling water systems. When properly applied, an improvement in operational efficiency due to increased heat transfer can be expected. Additional benefits include improved environmental impact by reduced chemical blow-down, and an overall reduction in on-going chemical costs. Reduced system corrosion when attributed to chemical biocides is also possible. Oxyzone air ' industry leading technology offers an impressive ROI along with providing the most reliable and green process.



SEWAGE TREATMENT PLANT (STP)

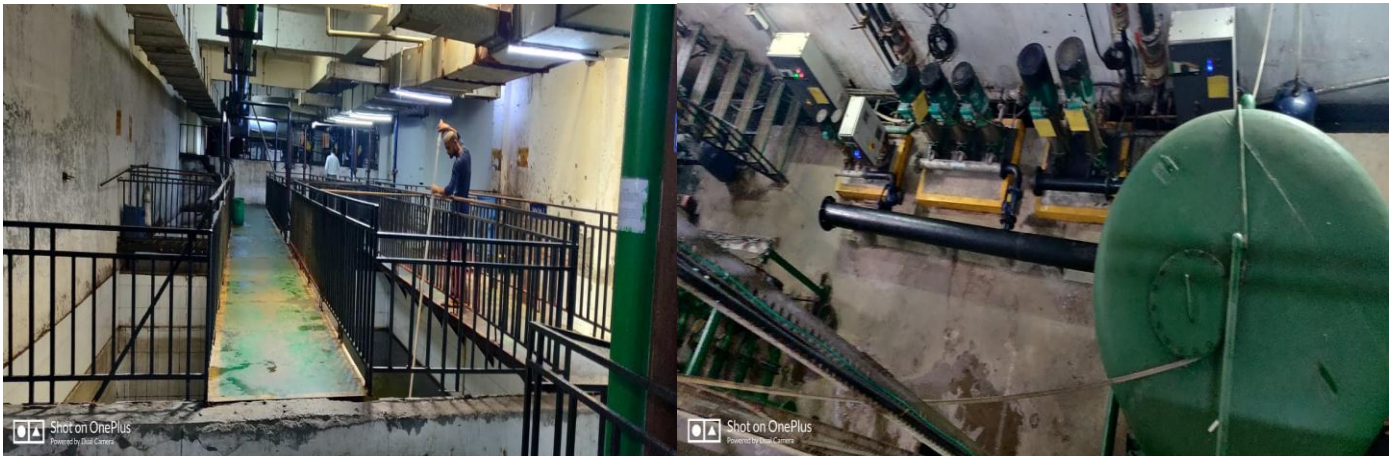
Process Description of Ozonation System in STP

Ozone plays very important role in Sewage Treatment Plants. When biological treatment is used in secondary stage, there is a carryover of micro Organisms in tertiary stage. Ozone being very strong oxidizing agent can effectively & quickly disinfects the Treated sewage water. Post reaction by product & unused residual ozone are safe to be disposed without any further treatment. Ozonation in waste water treatment is universally accepted & now mandated by pollution control boards.

The effectiveness of the ozone depends on multiple factors e.g target organisms load, Ozone contact time, ozone concentration, induced ozone dose, ozone mass transfer (dissolving) efficiency, purity of feed gas etc..

In waste water Ozonation the amount of ozone gets dissolved in waste water is the only reactive ozone & effective on pollutants & contaminants. This reactive ozone when reacts with the pollutants in waste water get consumed. So efficiency of Ozonation process also depends upon the efficiency of core waste water treatment & effective reduction in pollutants.

Generally waste water contains diversified constituents out of them ozone reacts with many of them in the process gets consumed. The ozone reacts on micro organism, colour, odour, Chemical Oxygen Demand(COD), Biochemical Oxygen Demand (BOD), organics, inorganics, heavy metals, oil & grease, total organics carbon(TOC), volatile organics compound(VOC) etc..



DAIRY

Ozone is the ideal water sanitizing agent for dairies and processing plants.

Clean, ozonated water improves water consumption, milk production, animal growth, and reproduction while lowering the number of illnesses and deaths. Ozone dissolved in cold water destroys organic matter such as

bacteria, viruses, milk solids, and calcium layers. There is no need for thermal energy or chemicals, resulting in no residuals. Ozone also oxidizes minerals and removes them from the water. Oxyzone air ' industry leading ozone technology is an environmentally friendly solution that uses half the amount of water that conventional cleaning methods require and cuts preparation time in half.



FOOD PROCESSING & STORAGE

Ozone is a proven, powerful way to eliminate microorganisms, effectively and quickly killing viruses and bacteria including E.coli and Listeria. It can be used to control biological growth of unwanted organisms in products and equipment used in food processing industries. Oxyzone air ' industry leading technology is particularly suited for the food industry due to its ability to disinfect microorganisms without adding chemical by-products to the food being treated, food processing water, or atmosphere in which food is stored. Ozone reverts back to oxygen leaving no harmful chemical residuals or altering the taste of treated food.



The cleanest water through irritant-free solutions.

Ozone has become known as a major health benefit to swimming pool users. Chlorine-free pools have been in operation for several decades in Europe. Ozone is an effective disinfectant killing bacteria, viruses, spores, mold, and algae. Ozone can be used alone to treat pools and spas or can be combined



POOLS, WATERPARKS & SPAS

OXYZONE AIR OZONE PRODUCT

0.5GM/HR



2GM/HR



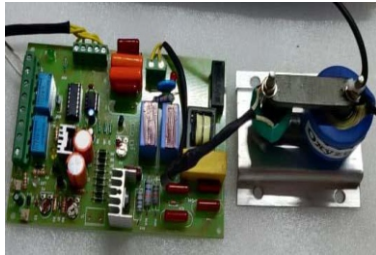
500MG-1GM/HR



OZONE MODULE



200MM X 38MM (SS316)
1GM OZONE CARD+CELL



10GM/HR

5GM/HR MODULE

OZONE CELL

500MG – 1GM/HR

10GM /HR

20GM/HR

ILG 50GM/HR/HIGH/Hz



ILG 100GM/HR/LOW/Hz

ILG 30GM/HR/HIGH/Hz

ILG 50GM/HR IGBT MODULE



Oxyzone air pvt.ltd

A-2/22 GD Steel Compound , Site - 4, Industrial Area,
Sahibabad, Ghaziabad, Uttar Pradesh - 201010

Mail:- support@oxyzoneair.com , info@oxyzoneair.com