



ELTECH OZONE PVT LTD is the group company of **ELTECH ENGINEERS PVT LTD**, established in 1992. Eltech Ozone Pvt Ltd is an ISO 9001: 2015 and CE certified Indian Company manufactures different types of Ozone Generators from 1gm/hr to 2 kg/hr.

Eltech Ozone Pvt Ltd is formally for Ozone Generators virtually applications like Waste water treatment, Sewage water treatment, Effluent water treatment, Packaged drinking water, Swimming pool, Laundry, Cooling tower water treatment and Air purification etc.

We are located in Mumbai, Dahisar at Diamond Industrial Estate, Near toll plaza, Off western express highway.

We have supplied Ozonators for STP to Ion Exchange Limited, Aqua cure Pvt Ltd, WTE Infra Projects Pvt Ltd, Samruddhi Waterworks Pvt Ltd, Parpact Environmental, Zeolite Water Technologies, Thermax Ltd, Aquacare Solution Enviro Engineers, many residential societies, Co-operate buildings, Etc.

Ozone use in Sewage Water Treatment (STP).

Sewage water is a type of wastewater, that is produced by municipal or from a small residential colony, it causes a dangerous hazard and cannot be disposed off in any other water like river, lake or sea and also it cannot be dumped on any land. The only solution to treated the sewage water is Ozone, it plays a vital role in the process of sewage water treatment and a minimal dose of ozone does this job better than high dosage of chlorine. Ozone treated water is considered environmentally safe for disposal and it can also be recycled for various uses like gardening, flushing, irrigation etc.

A serious problem for sewage plant operations is the generation of foul smelling odors, especially when they are located within an enclosed area. Studies have shown that air pollution from odors is the greatest problem that these installations must deal with and for which they receive the most complaints from the local population.

Benefits:

- BOD and COD reduction
- Ozone kills the bacteria and viruses safely and effectively
- TSS and Turbidity reduction
- Colour and Odour removal
- Removes all micro organisms
- Enhances flocculation / coagulation
- Improves water quality
- Environmental friendly

How does Ozone help to reduce COD/BOD ?

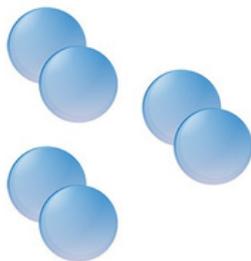
Ozone is a powerful oxidizing agent that can be used to treat wastewater in sewage treatment plants (STPs). BOD (Biochemical Oxygen Demand) and COD (Chemical Oxygen Demand) are two important parameters used to measure the organic pollution load in wastewater. Ozone can help reduce BOD and COD levels in STPs through several mechanisms:

1. **Oxidation:** Ozone is a powerful oxidizing agent that can oxidize organic compounds present in wastewater, breaking them down into smaller, more easily biodegradable compounds. This process reduces the BOD and COD levels in the wastewater.
2. **Disinfection:** Ozone can also disinfect wastewater by destroying pathogenic microorganisms like bacteria and viruses. This process can reduce the organic load in the wastewater, which in turn reduces the BOD and COD levels.
3. **Precipitation:** Ozone can also cause certain organic compounds to precipitate out of the wastewater, which can be easily removed by sedimentation or filtration. This process can further reduce the organic load in the wastewater, leading to lower BOD and COD levels.

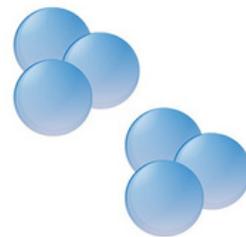
Overall, the use of ozone in STPs can help reduce BOD and COD levels, leading to cleaner and safer water that can be safely discharged into the environment.

Advantages:

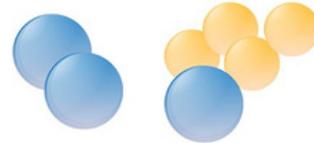
- Ozone removes colour and odour completely.
- Ozone disinfects the water thoroughly from micro organisms such as bacteria, algae, fungus, virus etc.
- Ozone treatment drastically reduces BOD and COD.
- Removal of organic and inorganic matter.
- Enhancement of the flocculation / coagulation decantation process.
- Ozone is produced on-site and requires no storage of dangerous chemicals.
- Oxidation of metals & non metals such as iron, arsenic, manganese, hydrogen sulphide & all organic matter.
- No refilling, replacement or maintenance needed.



OXYGEN MOLECULE O₂
(Pure Oxygen)



OZONE MOLECULE O₃
(Enriched Oxygen)



THE THIRD ATOM ATTACHES
TO THE POLLUTANT TO OXIDIZE
IT TO A HARMLESS MOLECULE



LEAVING PURE
OXYGEN O₂

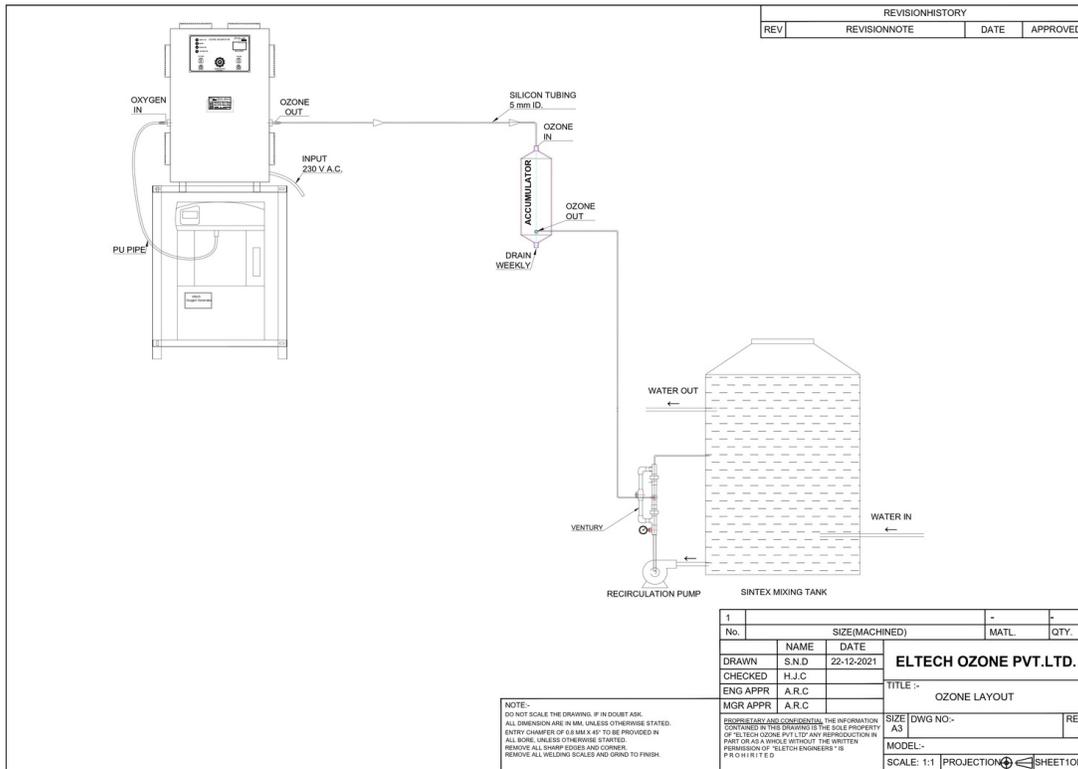


Installations:



Sailent Features:

- Ozone generator system is suitable for achieving reduction in volatile organic compounds, organic odors in indoor environment.
- Ozone Generator system is does not produces any hazardous by-products.
- Feed gas to ozone generator is industrial grade dry pure oxygen.
- Oxygen fed gas purity is 90-92%.
- MOC of Ozone Cell is Stainless/Aluminum with high dissipation design.
- Dielectric Tubes is fabricated of Quartz/ceramic to provide high efficiency
- Electrode is air cooled (Model : O Series) and water cool (Model : G Series)
- The Ozone Generator is suitable for operation on 230V- 50Hz Single phase input power (Model : O Series) and Three Phase (Model : G Series).



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