



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 Engineers Pvt Ltd is an Independent and worldwide active company for Research, Development, Production and Sale of High graded. All the products are CE certified.

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 Ozone Generator in Swimming pool at Garware Club (Wankhede Stadium), Khar Gymkhana, National Sports Complex (Worli), Riva Resorts (Goa), Della Resorts (Lonavala), Empress Residency (Parbhadevi), Many Villas in Alibaug and Lonavala, etc.

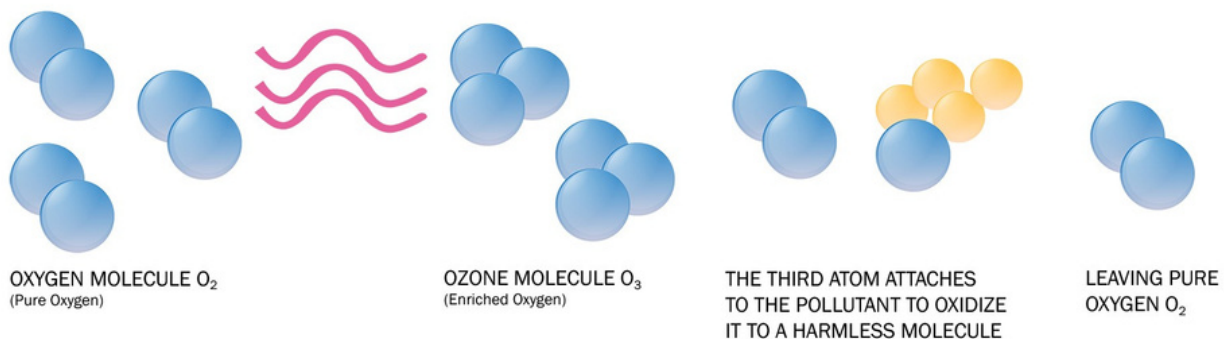
Ozone Generator in Swimming Pool

1) What is ozone?

Ozone is a highly reactive and unstable form of oxygen. Ozone is made up of three oxygen atoms together, written as O_3 . It is called activated tri-atomic oxygen. It is a gas and is denser than air. Ozone is the second most powerful sterilant in the world and its function is to destroy bacteria, viruses and odors. Ozone is nature's way of purifying the air we breathe. Ozone derives from the Greek word ozein, which means to smell. If natural ozone ceased to exist, life on this planet would also cease to exist.

2) How Ozone Produce ?

When from high voltage air or oxygen passes the ozone will be produced. When striking done in the sky, there is a high voltage in the striking and there is a air in atmosphere. When air passes from striking then Oxygen converts in to Ozone, this type natural Ozone produced.



3) For What purpose Ozone used?

Ozone is used for disinfection, For killing bacteria, For color removal, and it works as Oxidizing agent.

4) Common Organism killed by Ozone

Bacteria, fungus & mold spores , protozoa , fungal pathongens, virus, yeast, cysts, algae.

5) What are the benefits of using ozone?

- Bacteria kill rate is up to three thousand times faster
- 50% stronger oxidizer than chlorine
- Reduces traditional chemical (chlorine / bromine) use between 60% - 90%
- Reduce handling and storage of unsafe chemicals
- Reduce constant purchasing of harmful chemicals
- Eliminate red, irritated eyes and dry, itchy skin
- Eliminate costly replacement of faded swimwear
- Remove unpleasant chlorine / chloramine odours
- No adverse health or environmental effects
- Improvement of the filter and coagulant capacities. This leads to a reduction of coagulant use and less backwashing of the filter is required. Water consumption can be decreased, because of an increase in water quality.

6) How does swimming Pool become pollutant ?

Swimming pool water quality will be improved by elimination of chemical content. Swimming pool water pollution is mainly caused by swimmers. The pollutants can be divided into three groups Micro organisms, organics & solid particles.

Each swimmer carries a large number of micro organisms such as bacteria, virus which can cause disease. Organics come from urine, sweat and saliva which contain ammonia, urea and amino acids. These react with chlorine and form chloramines which irritate the eyes and skin.

8) Is ozone safe for swimmers?

Ozone dissolved in the water is pH neutral so the pH will not harm equipment or people. The amount of ozone added to the water is enough to kill bacteria, virus, cysts, mold and spores, but is safe and non-toxic to humans and pets – no red, irritated eyes and dry, itchy skin. When properly installed and plumbed all of the ozone generated will be dissolved in the water or used up oxidizing impurities in your water.

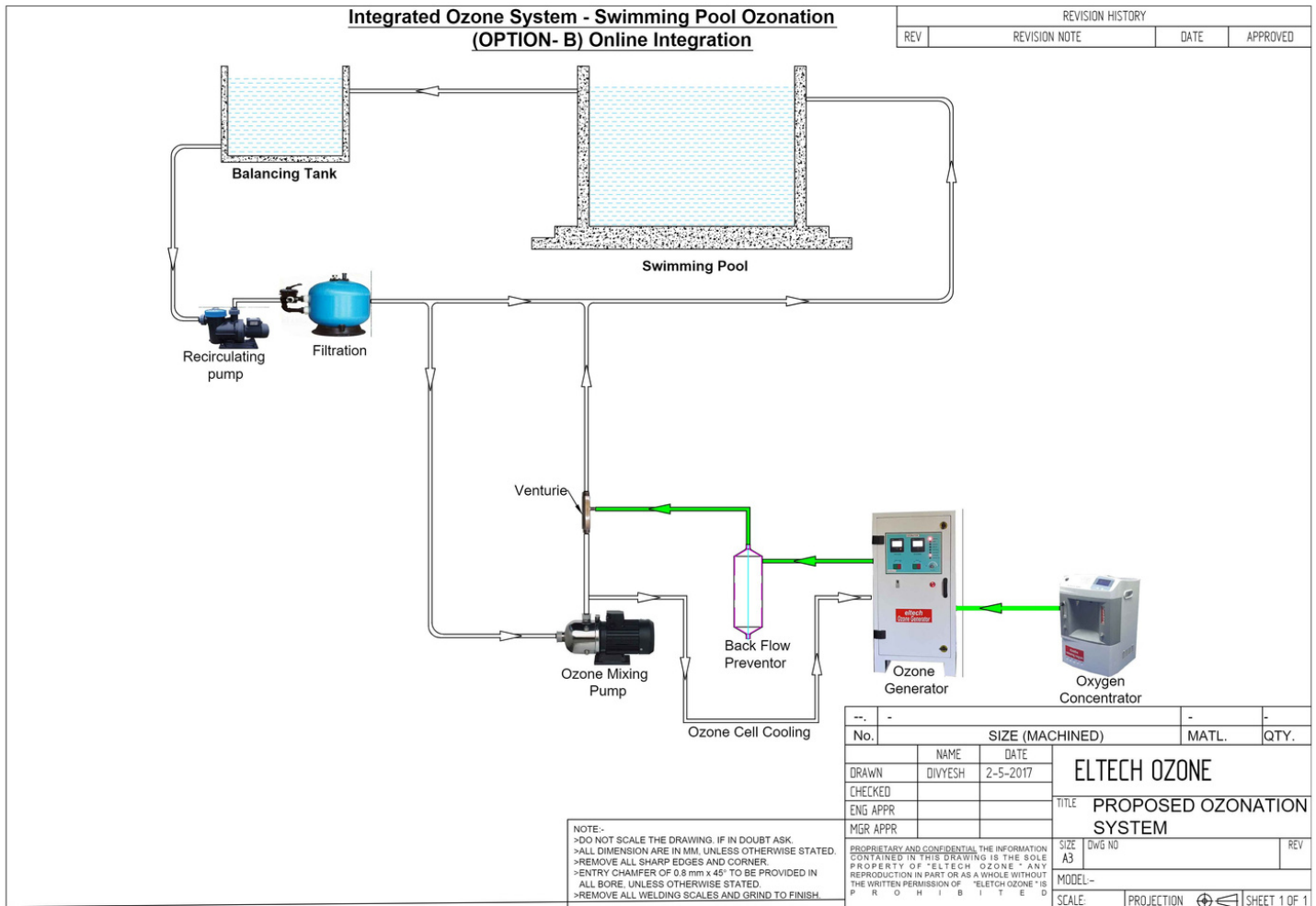
COMPARISON BETWEEN OZONE TREATMENT AND CHLORINE TREATMENT

SR. NO	OZONE TREATMENT	CHLORINE TREATMENT
1.	Actively inactivates bacteria and viruses 3,125 times faster than chlorine.	Does not attack some viruses. Take more time to kill bacteria.
2.	Inactivate some micro organisms which resist to chlorine (eg. Legionella)	Does not inactivate.
3.	Eliminates some impurities or pesticides.	Does not eliminate.
4.	Produces H ₂ O, O ₂ , CO ₂ as by-products. So, it is environment friendly.	Creates dangerous carcinogenic by-products, which pollute the water.
5.	Excellent deodorizer	It is not a deodorizing agent.
6.	Effective against mustiness, mildew and fungus.	Does not have such effect.
7.	Generated on the premises (not stored).	Stored on the premises and is a hazard.
8.	Long term overall cost of using ozone instead of chlorine will be lower. (Typical pay back time 18 months)	Cost is increasing and has become quite prohibitive.
9.	Does not require pH control. Does not affect pH.	Needs pH control (7.0-7.4 pH)
10.	Promotes health	Cancerogenous
11.	Back wash water is non toxic	Back wash water is a pollutant.
12.	AUTOMATIC	LABOUR DEPENDANT

Installations :



Procees Layout



NOTE :

1. Ozone Mixing Pump is Optional,
2. Venturi requires 2Kg/cm² water pressure in Online piping, if not then only Ozone Mixing Pump required.

ELTECH OZONE PVT LTD

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