



**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.

Ozone Generator for Fruits and Vegetables sterilization is the latest technology for Organic kind of.

## Ozone generator for fruit and vegetable washing

Ozone is a universal disinfectant that can oxidize organic matter and inorganic compounds, destroy viruses, bacteria and other pathogens. For over a century, ozone has been used in water treatment processes and only recently it has started to play a major role in the food and agriculture industry.

Increased demand from consumers and current regulations has led to an exhaustive overhaul of the types of disinfectants used in the washing processes for fruit and vegetables.

## Water for washing precut salads

The use of ozone for washing salads and vegetables produces water with a high degree of purity that is unattainable with other methods. Its disinfection power and the total absence of chemical products in the end-product make this system the ideal choice for this type of process. With 4 ppm of residual ozone in the wash water, a reduction of 99.99% in terms of surface contamination can be obtained. These results are equal or better than those obtained using 50 ppm of chlorine. Another advantage is that after washing, the water used is not contaminated and there are no alternations in the product's colour, quality or texture. Sometimes, the average product life is even prolonged through this process.

The more we research and learn about ozone, the more impressive Ozone's resume becomes. The number of applications completely dominated by Ozone is staggering.

" The real story behind Ozone is not just its diversity but the fact that Ozone is so environmentally friendly is just a bonus "

" The USDA and FDA have approved ozone as an antimicrobial agent for use with food processing. With regulatory approval, ozone has become a great option for cost-effectively disinfecting food "

## Ozone Advantages

- The most powerful oxidizer available.
- Environmentally friendly.
- No chemical storage required.
- Three-thousand times more germicidal than chlorine.
- Instant pathogen destruction & no harmful chemical residual.

## Benefits Ozone

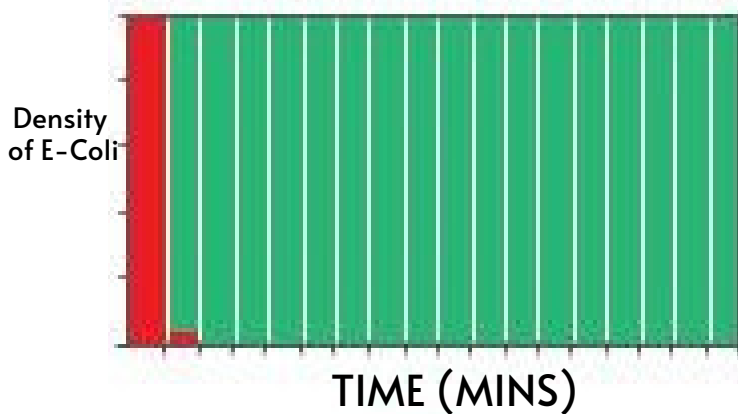
- Eliminates harmful bacteria
- Neutralizes toxic pesticides
- Food stays fresh twice as longer
- Free sanitizer, use ozone infused water on worktops, cutting boards and much more.
- Ozone leaves no chemical residue: No final rinse, hence Less water Usage
- Ozone lowers counts of spoilage microorganisms in wash water and on produce surface: Longer Shelf Life
- Ozone improves taste and appearance over the use of chlorination alone: Better Quality Produce.

" Washing fruits and vegetables just with water does absolutely nothing "

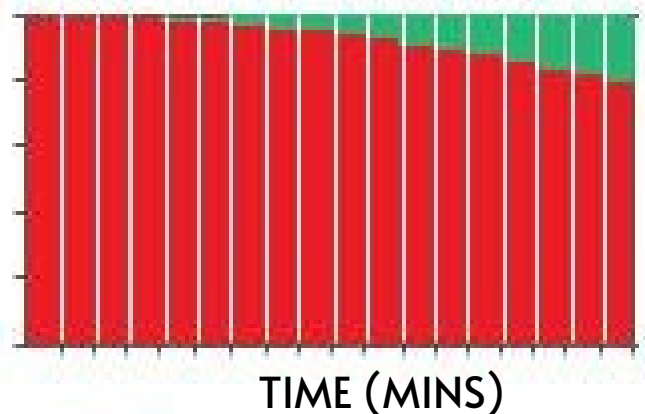


## Ozone vs Chlorine : Disinfection Effectiveness

Ozone system eliminates E-coli  
Time 15 Secs at 20Deg C



Chlorine not effective to eliminate  
E-coli Time 3 Mins at 20Deg C



Eliminate of E-Coli Surviving of E-Coli

## Conclusion:

- Ozone kills most bacteria within 15 seconds.
- After 20 seconds Ozone destroyed all E-coli.
- Chlorine's efficiency is quite poor compared to ozone.



## How Ozone works :

- As ozone comes into contact with bacteria, the ozone molecule attacks the cell wall of the organism and breaks it down in a process known as cell lysing.
- Once the cell wall is penetrated, the cell's cytoplasm is released and the cell expires almost instantly. Ozone attacks the microorganism like a shotgun, bursting their membranes and spilling their contents

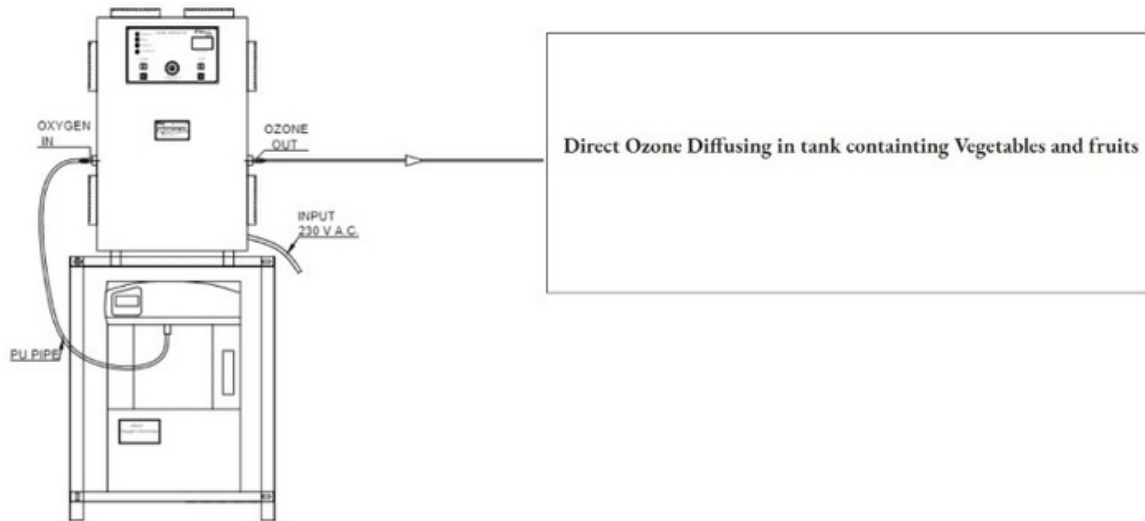


8 days of freshness. Actual results.

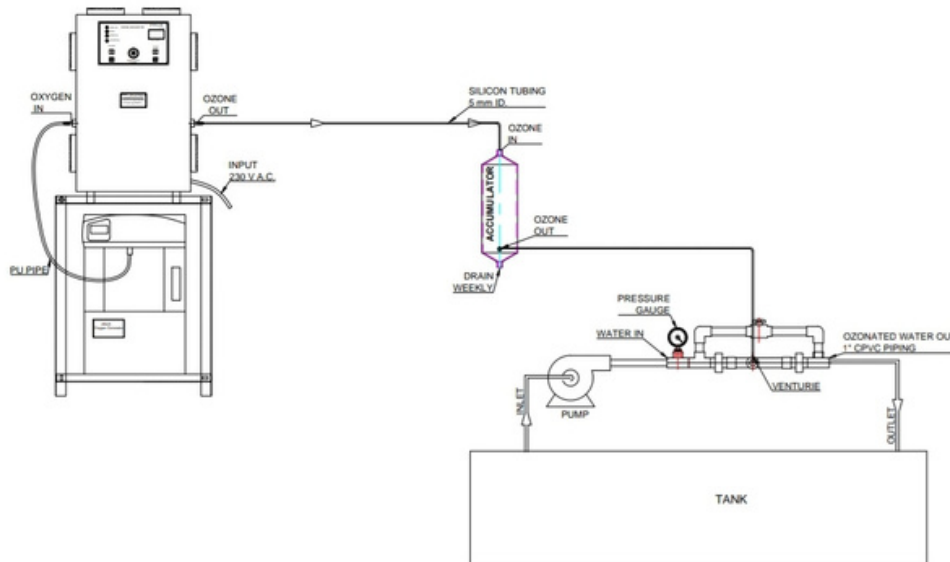
16 days of freshness. Actual results.

## PROCESS LAYOUT

### a. Direct Diffusing



### b. Recirculation with S.S Pump and Venturi Diffusing



## ELTECH OZONE PVT LTD

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