



OZONE TREATMENT FOR BOTTLED WATER PLANT

ABOUT US:

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.

OZONE TREATMENT FOR BOTTLED WATER PLANT:

Ozone treatment is a widely used method for disinfecting water in bottled water plants. Ozone (O_3) is a powerful oxidizing agent that is highly effective in eliminating bacteria, viruses, and other microorganisms from water. Here's a breakdown of the process and why it is beneficial for bottled water production:

How Ozone Treatment Works in Bottled Water Plants:

1. Ozone Generation:

- Ozone is generated on-site by an ozone generator, typically using air or pure oxygen as the feed gas. The generator uses electrical energy (corona discharge) to convert oxygen (O_2) into ozone (O_3).

2. Ozone Injection into Water:

- The ozone gas is dissolved in the water as it flows through the plant. This can be done through a venturi injector or diffusers, which ensure that the ozone mixes thoroughly with the water.
- The amount of ozone injected is carefully controlled to ensure it is sufficient to kill pathogens without leaving excessive residual ozone.

3. Disinfection and Oxidation:

- Once dissolved in the water, ozone begins to act on microorganisms. It oxidizes the cell walls of bacteria and viruses, leading to their destruction.
- Ozone can also oxidize other contaminants like organic compounds, iron, manganese, and sulfur compounds, improving the water's taste, clarity, and safety.

4. Decomposition of Ozone:

- Ozone decomposes back into oxygen (O_2) relatively quickly, leaving no chemical residues in the water. The natural decomposition process ensures that the water remains safe for consumption.

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Benefits of Ozone Treatment for Raw Water in Pharma:

- **Effective Disinfection:** Ozone is stronger and faster-acting than chlorine or other chemical disinfectants, making it highly effective against a wide range of pathogens.
- **Chemical-Free:** Unlike chlorine or other chemical treatments, ozone does not leave any chemical residues in the water, ensuring that the final product is pure and tastes better.
- **Environmentally Friendly:** Ozone breaks down into oxygen, so it doesn't introduce harmful byproducts into the water or the environment.
- **Odor and Taste Improvement:** Ozone helps remove unpleasant odors and tastes associated with certain water sources by oxidizing organic and inorganic substances.
- **Compliance with Regulations:** Ozone treatment is widely accepted and regulated in the bottled water industry, meeting safety standards set by health authorities like the FDA, WHO, and EPA.

CLIENTS:



Many Others

QR FOR VIDEO



BOTTLED WATER PLANT

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