

Benefits of Ozonation in RO Systems

1. Highly Effective Disinfection

- Ozone is a potent oxidizing agent that effectively inactivates bacteria, viruses, protozoa (e.g., Giardia, Cryptosporidium), and other pathogens—often more rapidly and broadly than chlorine.

2. Oxidation of Organic and Inorganic Contaminants

- It effectively oxidizes complex organic compounds (like pesticides, pharmaceuticals, and dissolved organic carbon) and inorganic species (such as iron, manganese, and sulfides), improving overall water clarity and quality.

3. Eliminates Taste and Odour's

- Addresses aesthetic issues by oxidizing volatile organic compounds responsible for unpleasant tastes and smells, such as geosmin and sulphur.
- Does so without adverse chemical after-effects—ozone decomposes to oxygen.

4. Protects and Enhances RO System Performance

- Ozonation helps prevent biofouling by disinfecting feed water and reducing microbial growth on RO membranes, thereby preserving performance and extending membrane life.

