

BACO

Advanced Mixed Oxidants Disinfection System



Behin AB Zende Rood
Research & Consultant Engineering Co.



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The BACO system is inexpensive, safe, easy to use and effective for water disinfection. This system is using Sodium Chloride, water and electricity to produce a mixed oxidants solution comprising ozone, hydrogen peroxide, chlorine dioxide, soluble gaseous chlorine, sodium hypochlorite, hypochlorous acid and oxygen.

Applications

- Disinfection of drinking water in urban and rural area
- Water disinfection in water parks
- Water disinfection in outdoor & indoor pools and Jacuzzi
- Mobile water disinfection in crisis management
- Disinfection of wastewater treatment plant effluents
- Disinfection of areas and halls
- Disinfection of industrial water

Advantages

- Feasibility of design and construction in various capacities
- Removing chlorine gas or powder and reducing their risks
- Reducing the chlorine smell in water specially in the pools
- High disinfection power due to the combination of various oxidants
- Feasibility in using measurement systems and online chlorine set up
- Efficiency by the latest technologies of the manufacturer



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Applications of BACO

Pools and Aqua Parks

- Aqua parks
- Children's pools
- Indoor and outdoor pools and jacuzzies

Advantages:

- Increasing water clarity and quality
- No need to pH adjustment
- Decreasing the chlorine odor in pool
- Decreasing harmful byproducts
- No eye irritation, itchy skin and dry hair



Wastewater Treatment

- Municipal wastewater treatment plant effluents
- Industrial wastewater treatment plant effluents
- Hospital wastewater treatment plant effluents

Advantages:

- Meet sanitation standards
- Meet EPA standards
- Decrease in production of harmful byproducts



Crisis Management

- Fast mobile disinfection
- Surface water disinfection
- Self sufficient power supply
- Drinking water supply in crisis management and natural disasters



Disinfection and Sanitation

- Disinfection of bathrooms
- Disinfection of clothes and covers
- Disinfection of surgery room in hospitals



Potable Water

- Dams
- Wells
- Water storages
- Surface water
- Ground water

Advantages:

- Decreasing unpleasant odor and taste
- Decreasing harmful byproducts



Industrial Water

- Cooling towers
- Boiler's
- Processing units
- Industrial recycled water



Membrane Desalination Plants

- RO plant feed water
- NF plant feed water
- UF plant feed water
- Decreasing the biological fouling of membranes

