

Solutions for water

GREEN TECHNOLOGIES

SiC.O3®

Membrane SiC + AOP O3



Most natural water sources are not completely safe for human consumption. **FluidO3's** mission is to create a technology that treats water effectively and reliably and provides ultra-pure drinking water

INNOVATIVE SOLUTIONS BACKED BY DECADES OF EXPERIENCE

With extensive experience, **FluidO3** is the ideal partner to solve the most difficult municipal and industrial water problems with high quality solutions.

FluidO3 provides state-of-the-art systems in water purification for:

- Heavy metal removal
- Removal of algae and microorganisms
- Removal of bacteria
- Removal of organic residues
- Color and odor removal
- Microfiltration

SiC.O3 PLANTS

Equipped with SiC (Silicon Carbide) membrane microfiltration technology and an advanced ozone oxidation process, **SiC.O3®** systems offer a new treatment approach with high performance and high effluent quality, regardless of the quality or condition of the incoming feedwater.

USES

SiC.O3® systems can be used in a variety of applications, including:

- retrofit of gravity filters
- direct treatment of surface water,
- removal of heavy metals such as iron, manganese, arsenic and radon,
- recovery of filter backwash water,
- reverse osmosis (RO) pretreatment.

FEATURES

The action of destruction of organic substances and precipitation of metals operated by Ozone treatment, followed by microfiltration on SiC membrane at 0.1 μ, is operated with very high flows and without the use of added chemicals for flocculation and precipitation processes.

Made with modular systems, and optimized for maximum reduction of energy consumption, they allow easy adaptation to any need, limited maintenance and long service life.

ADVANTAGES

The benefits of using **SiC.O3®** systems are many, including:

- Improved effluent quality
- High durability of SiC membranes.
- Reduction in OPEX costs (reduction in flocculant and disinfectant use > 70%).
- CAPEX cost reduction of a new WTP.
- Easy handling of high turbidity and color peaks
- Elimination of upstream clarifiers
- Drastic reduction in sludge and backwash water
- Dramatic reduction in footprint and footprint, a 15,000 mc/d membrane unit is housed in 10 sq. m.
- Easy maintenance
- Industry 4.0 automated plants
- Plants with low environmental impact
- low energy consumption

