

BIOBOX IRON & MANGANESE

Efficiency and sustainability in water treatment



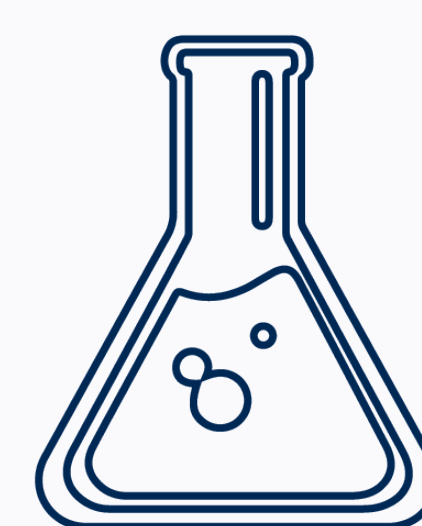
High filtration
velocities



No or minimal pre-
conditioning requirements

+10

Years of service life of the
material



No chemical
dosing required

The BIOBOX® iron & manganese technology is an efficient and sustainable solution for removing iron and manganese from **drinking and wastewater**.

These prefabricated plants, **custom-designed** according to each user's needs, require no chemical reagents and generate no contaminating byproducts. With an approach that combines high operational efficiency, low costs, and minimal environmental impact, they stand as a modern and reliable alternative to traditional treatments.



BIOBOX Iron & Manganese, THE PROCESS

The BIOBOX® iron & manganese process adapts according to the concentrations: it uses auto-catalytic oxidation for moderate levels and physicochemical treatment for high concentrations.

Two approaches based on the concentrations to be treated

Moderate concentrations
<2mg/l Fe < 0,5 mg/l Mn



Auto-catalytic oxidation

High concentrations
>2mg/l Fe > 0,5 mg/l Mn



Physical-chemical elimination



FEATURES OF BIOBOX iron & manganese

BIOBOX® iron & manganese offers an efficient treatment for removing iron and manganese without chemicals, with a compact design, low energy consumption, and remote control, optimizing costs and space.

High effectiveness and results:

- 90% removal of iron and manganese
- No need for chemicals or generation of contaminating waste

Advanced filtration material:

- Surface Fe₂O₃ with auto-catalytic properties
- High specific surface area and low head loss

Efficient and cost-effective operation:

- No or minimal pre-conditioning
- Low energy consumption and up to 50% reduction in operational costs

Custom design and durability:

- Prefabricated and customized plants
- Advanced automation with 24/7 remote control and over 20 years of industry experience.

Contact us today and discover how our innovative and customized technology can transform your water quality, optimize costs, and ensure a more sustainable future!