

WATER DISINFECTION

The aim of water disinfection is to reduce the presence of microorganisms in waste water in order to protect the receiving water body against possible bacterial contamination.

Process description

In detail, the treatment process consists of:

INPUT of treated wastewater from a water treatment plant.

FLOW METER for measuring the quantity of incoming water and determine the quantity of disinfectant to inject into the system.

ELECTRICAL PANEL for managing flow meter input and disinfectant pump output.

REAGENT TANK holding the disinfectant; size according to flow to be treated.

DISINFECTION TANK, where water and reagent are mixed.

It is composed of a series of internal screens that enable even disinfectant distribution.

Treated water **OUTPUT**.

Running and maintenance

This treatment system does not imply special running and maintenance requirements in addition to periodical checks to ensure correct operation of all devices and reagent replacement.

Products and technical features

Disinfection tank size according to required retention time.

No ideal disinfectant exists; the most used is chlorine yet, given the persistence of chlorine residual over time, the preference goes to other reagents such as peracetic acid and ozone, which do not contain persistent by-products toxic to aquatic life.

DISINFECTION PLANT

