



## SuMeWa|TURB

### Efficient removal of turbidity and safe disinfection

#### Description

SuMeWa|TURB is our autonomous solution for the treatment of waters containing turbidity, such as surface waters, reservoirs, spring water, wells, or bank filtrate. The process involves pumping from the source intake, filtration, inline-electrolytic production of residual disinfectant, storage and water quality monitoring. The filter is backwashed automatically whenever required. The system is online monitored assuring hassle free operation and the operator will be informed about potential maintenance requirements via e-mail sent from the station. This prevents errors before they occur and reduces downtimes.

#### The advantages at a glance

- Save removal of
  - Turbidity (below <0.5 NTU)
  - Pathogens (>5 log units, or >99.999%)
  - Parasites e.g. cryptosporidium oocysts
- Online controlled residual disinfection

- No addition of chemicals required
- No exchange of filtration media required
- Minimal operation costs and maintenance
- Automatic backwash
- Online monitoring through GSM/3G/WiFi

#### How it works

Turbidity is caused by particulate matter of organic and inorganic origin and by that can shield pathogens from adequate disinfection. Turbidity levels below 1 NTU are required to permit disinfection. The by SuMeWa|TURB achieved reduction of turbidity, not only allows safe disinfection but also reduces the demand for chlorine. The media is bio-resistant and prevents the usual channeling. By that the filter achieves removal rates that are usually reserved for ultra filtration (UF) membranes –but without complicated maintenance requirements. The water quality sensors assure safe drinking water conditions during distribution and consumption.

#### Technical data

Maximum raw water contamination

Turbidity	200 NTU
Hardness	350 mg/L CaCO <sub>3</sub>
pH range	5.5 – 9.0
Capacity	Up to 15.000 Liters per day*

\* A raw water analysis for performance evaluation is required. SuMeWa|TURB does not reduce the TDS of the water.

#### About AUTARCON

We stand for safe and clean drinking water. As specialists in decentralized water supply our expertise ranges from basic disinfection to complete solar driven drinking water treatment. The base for that is our SuMeWa|SYSTEM technology. With its different modules SAFE, TURB, IRON, and ARSENIC we offer a product portfolio that allows individual response to the demands of our customers. SuMeWa|SYSTEM safely treats water in hospitals, schools and villages – all around the globe.



Please see our references of SuMeWa|TURB stations for:

India                      Tanzania

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