

# SAWYER®



## Why to choose Sawyer UltraFiltration?



### Sawyer UltraFiltration is chosen for an excellent and permanent efficiency of drinking water treatment!

Sawyer UltraFiltration on hollow fiber membrane is a **clean, efficient** and **inexpensive** technique for **drinking water** production. It is a purely physical treatment able to treat all kind of fresh water (groundwater, river water, lake water, stream water ect.), allows production of an excellent and constant water quality regardless of the quality of the raw water.

Ultrafiltration **clarifies** and **disinfects** the water in one step.

Ultrafiltration is an **alternative to conventional filtration** for water clarification, with a **significant improvement in the effectiveness of treatment** (reduction of the turbidity to less than 0.2 NTU) which is obtained regardless of the quality of raw water treated and without chemicals addition.

Ultrafiltration often replaces other more conventional treatment techniques, as it has the capacity to eliminate not only small particles but also pathogenic germs including microorganisms, pyrogens, viruses and some dissolved organic species.

In order to improve both the filtration rates and longevity of the filter, Sawyer technical team was dedicated to engineering something even more precise and rugged. To make it a superior solution, the fiber composition had to deliver exactly 0.1 & 0.02 micron filtration 100% of the time to ensure no bacteria would get through. Moreover, the membranes had to be sturdy enough to withstand backwashing which allows the filter to be cleaning and reused.

Each Sawyer filter is certified for ABSOLUTE microns; that means there is no pore size larger than 0.1 or 0.02 micron in size, that is to say 1000 times thinner than a human hair. This makes it **impossible** for harmful bacteria, protozoa, or cysts like E. coli, Giardia, Vibrio cholerae and Salmonella typhi (which cause Cholera and Typhoid) to pass through the Sawyer PointONE™ biological filter. The **Sawyer filter attains the highest level of filtration available today. And it does exceeding EPA and NSF recommendations.**

- Turbidity <0.2 NTU 100% of the time
- Elimination of 7 log (99.99999%) of microorganisms
- Removal of >5.5 log (99.9997%) of viruses (with Point ZeroTWO Purifier)
- Production and quality guaranteed

## What is Turbidity in the water?

Turbidity is the amount of cloudiness in the water. This can vary from a river full of mud and silt where it would be impossible to see through the water (high turbidity), to a spring water which appears to be completely clear (low turbidity).

### Turbidity guidelines for drinking water:

For drinking water supplies, the following guidelines should be taken into consideration:

- Drinking water should have a turbidity of 1.0 NTU or less. Turbidity of more than 5 NTU would be noticed by users and may cause rejection of the supply.
- Where water is chlorinated, turbidity should be less than 5 NTU and preferably less than 1 NTU for chlorination to be effective.

