



Program

- A reliable centralised drinking water supply
- Use of surface water: advanced treatment
 - Membrane filtration
 - UV-H₂O₂
- Plenty: full automation of drinking water supply
- Round tour









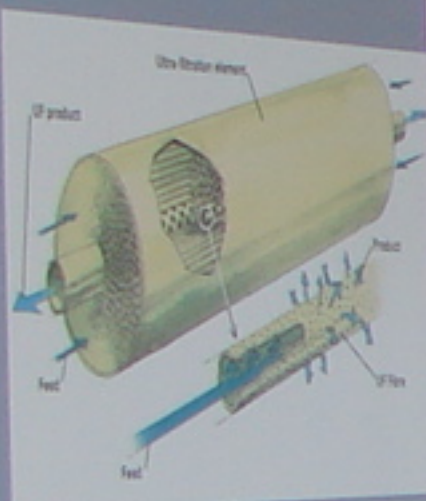


Ultra-filtration

The openings or pores in the ultra-filtration membranes (fibres) are sufficiently tiny as to retain all particles in suspension, including bacteria and viruses. The water is forced through the straws from the inside out, while the purified water or filtrate is removed through a tube which is located at the core of the bundle of straws.

All particles (including bacteria and viruses) retained gather against the inside wall of the straws. For this reason the water flow is reversed regularly so as to flush and clean the straws from the outside in. This reverse flushing water is extracted, purified and reintroduced into the production process. In order to prevent long-term bacterial growth, a chlorine based flushing agent is applied about four times a day. The straws are subject to more rigorous cleaning typically once every one or two months.

At the start of development of the combination of ultra-filtration and hyperfiltration, only small-capacity ultra-filtration systems were available. We have developed the ultra-filtration concept in collaboration with our Dutch supplier, and it has since been widely accepted onto the international market.



Schematic diagram ultra-filtration



Element before putting

Element after





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Hyperfiltratie
Hyperfiltratie is een proces waarbij water door een membraan met zeer kleine poriën wordt gedrukt. Dit proces wordt gebruikt om water te reinigen van kleine oplosbare stoffen, zoals zouten en organische moleculen. Het is een belangrijk onderdeel van de waterzuivering in industriële en medische toepassingen.



Diagrammatische weergave van hyperfiltratie

