

## Product Information W.E.T.pool - sek

The secondary stage – a supplement to circular treatment with ultrafiltration – will minimize the backwash water consumption.

### Ihre Nutzen und Vorteile

- Water saving due to second treatment step.
- Low-price solution.
- Space-saving design.
- Germ-free water due to most modern membrane technology.
- No germ reproduction in filters.
- Fully automatic operation with several backwashing procedures per day.
- Staff required for control work only.
- Detailed planning documentation for standardised systems.

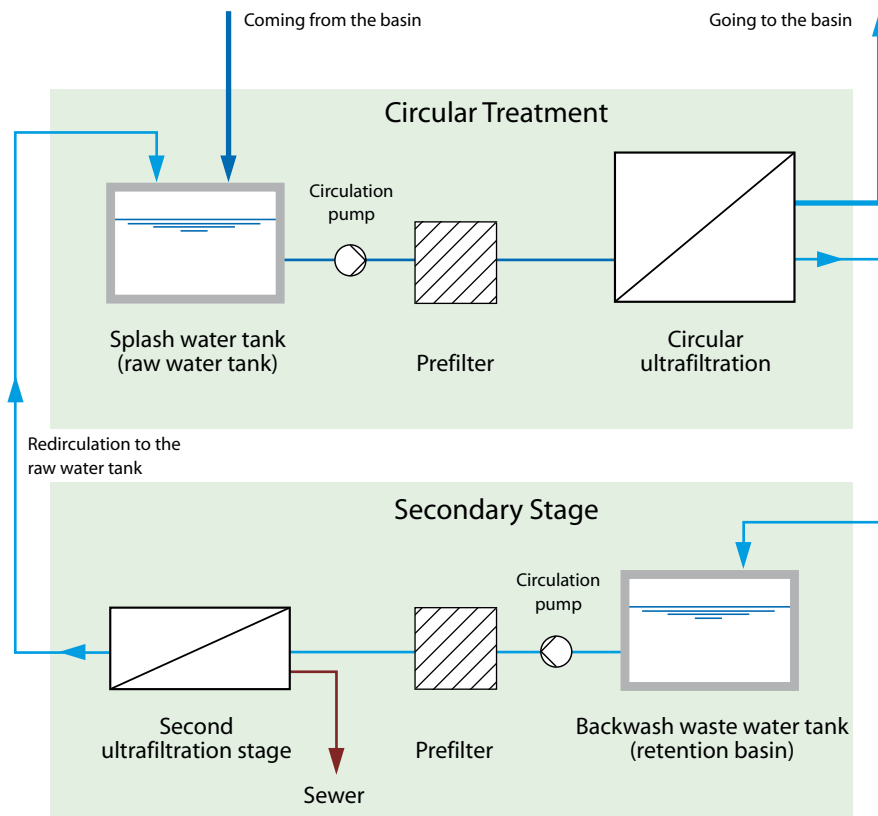


Secondary stage



Circular treatment with ultrafiltration

pool-**sek**



### Procedure Secondary Stage

The backwash waste water of the circular ultrafiltration will be stored in a plastic tank. The waste water of the chemical backwashing will not be re-used.

Size and capacity of the secondary stage are aligned to the backwash water produced by the circular ultrafiltration.

The ultrafiltration membranes of the secondary stage are filtering out all particles bigger than 0.02  $\mu\text{m}$ , i. e. also viruses and bacteria. After this process, the water is germ-free.

The water produced during backwashing of the secondary stage will be disposed of into the sewer.

Clean, germ-free water  
produced with most modern  
membrane technology

## Function and Execution

The combination of ultrafiltration for circular treatment and downstream secondary stage, also equipped with ultrafiltration membranes, allows a considerable reduction of the water consumption and the heat requirement.

In the secondary stage and in the circular ultrafiltration membrane modules are being used which are mounted compactly in a rack with PVC piping and pneumatically operated valves. Differential pressure meters and flow meters are monitoring the pollution of the membranes and the volumetric flow rate.

The ultrafiltration is equipped with an upstream filter in order to protect the membranes from coarse impurities.

The ultrafiltration membranes and prefilters are being backwashed automatically several times a day without assignment of any operating staff. Additional chemical backwashing of the ultrafiltration system with chlorine avoids possible germination and is guaranteeing a perfect water quality.

The filtrate of the secondary stage will be fed into the splash water tank of the circular system and will be filtered once again with the circular ultrafiltration. This means double treatment of the backwash waste water.

... further questions?

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Innovation and Progress  
in Water Treatment