

### Product Information W.E.T.waste 5 - 150

Ultrafiltration for backwash waste water treatment in swimming pools with activated carbon filter\* for disposal into the receiving water, with reverse osmosis\* for recirculation into the circuit.  
\*optional

Capacity 0.5 – 15 m<sup>3</sup>/h

### Your benefits and advantages

- Cost reduction by treating the backwash waste water and recirculation to the circuit and/or disposal into the receiving water respectively.
- Germ-free water due to most modern membrane technology.
- Germ production in filters is impossible.
- Fully automatic operation with several backwashing procedures per day.
- Staff required for monitoring only.
- A room height of 2.0 m is sufficient.
- The modular construction of the units also allows for subsequent adjustments to new requirements.
- Detailed planning documentation for standardised systems.
- Client-specific adjusting of the plants.
- Consulting and co-ordination of engineering issues with our employees is possible at any time.



The meanwhile long years of extremely positive operating experiences with ultrafiltration in swimming pools are proof for the high degree of safety and for the best quality of this new treatment technology.

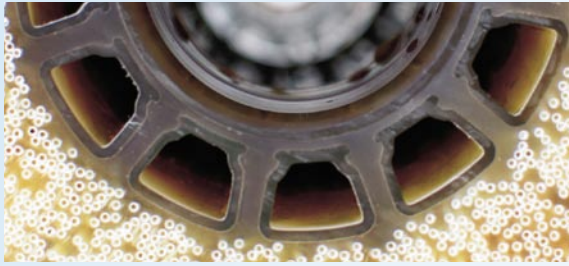
Please ask for our reference list.

- ✓ Leasing
- ✓ Contracting

waste

W.E.T.waste 40 X

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

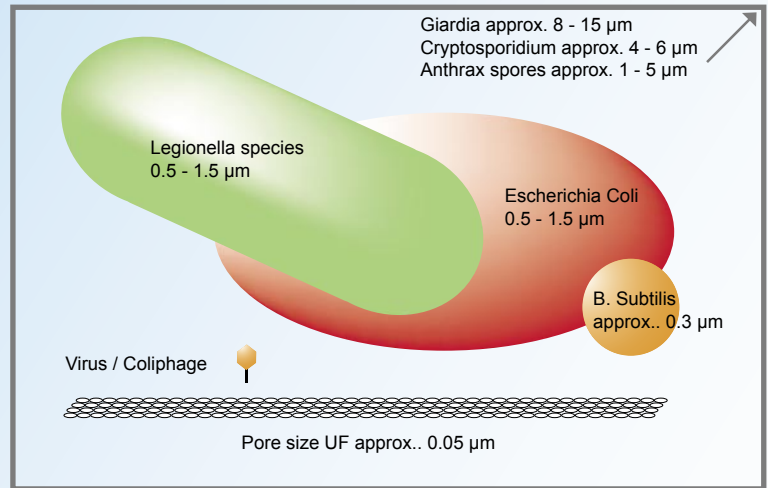


W.E.T.waste systems are treating the water with ultrafiltration membranes with filter pores as small (approx. 0.05 µm) that neither bacteria nor viruses can pass the membrane.

For comparison: a human hair as a diameter of approx. 50 µm – 1000 times the size. Therefore the water will leave the ultrafiltration unit absolutely germ-free. Vitally necessary substances such as minerals and salts can pass the membrane and will be maintained.

By modification of the system the treated water can be led directly into an adjacent water. The legal limit values and requirements of annex 31 to the water resources law (AOC, COD, free chlorine) will be observed.

Ultrafiltration (UF) in size comparison with known water germs



W.E.T. - Reverse Osmosis System

## Treatment Process

The sedimented sludge water produced during filter backwashing will be led to the ultrafiltration through a protective filter.

The water treated by the UF will then be stored in a buffer tank which will serve for backwash water storage for ultrafiltration and at the same time as a feed tank for the downstream reverse osmosis.

Reverse osmosis is required in order to reduce enrichment of the swimming pool water circuit with chlorides, sulphates, nitrates etc. during the operating year. It is located downstream ultrafiltration.

Backwashing of the different treatment steps will be done fully automatic. A chemical cleaning and disinfection with chlorine will be done several times per day instead of normal ultrafiltration backwashing in order to completely exclude any germ production on the membrane.

## Execution

The membrane modules are compactly mounted on a rack made of steel, connected to PVC pipelines and will be switched by means of pneumatically operated valves.

The W.E.T.waste series is particularly designed for simple installation and assembly. Even a door width of 80 cm only does not represent any obstacle.

## Service and Maintenance

Maintenance will be done twice a year by our expertly trained staff and/or our contract partners. During maintenance, function and condition of the plant components will be checked and the membranes will be cleaned and disinfected.

... further questions?

Please call us or send your message to:

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**W.E.T.** GmbH  
WASSER ■ ENERGIE ■ TECHNOLOGIE

Our systems correspond to  
DIN 19645.

Innovation and Progress  
in Water Treatment