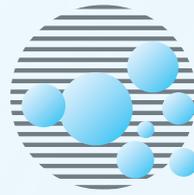


# W.E.T.pool



Ultrafiltration for the treatment of swimming pool water in indoor and outdoor swimming pools.

Circulation capacity of 32 - 700 m<sup>3</sup>/h for all types of pools. The best water values even for heavy use pools like whirlpools, recreational pools, therapeutic pools.

The modular, compact construction makes it also suitable for conversions or renovations.

## Your benefits and advantages

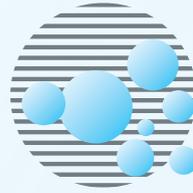
- High-end technology with ultrafiltration
- Germfree water, no filter contamination
- Fine filtration leads to fewer reaction partners for chlorine
- Pursuant to the German DIN 1643 only half the volume flow compared to fixed-bed filters
- Low internal height (2.0 m), transport through doors of 0.8 m width
- Compact and flexible design adaptable to every room
- No channel connections, low operational weight
- No rinsing water reservoir, no rinsing waste water reservoir
- Fully automatic operation, only chemical containers need to be exchanged
- Low operating costs, low operating pressures
- Long service life of the membranes
- Operational safety assured by remote monitoring
- Highest level of safety for pool guests



Two ultrafiltrations with a volume flow of 130 m<sup>3</sup>/h each

pool

# W.E.T.pool



## Clean, germfree water due to ultramodern membrane technology

The German DIN 19643 lays down a capacity factor of  $k = 1.0 \text{ m}^3$ . The capacity factor  $K$  describes the permissible number of pool guests per  $\text{m}^3$  of treated water. This means that  $2 \text{ m}^3$  filtrate is required for one pool guest with a fixed bed filter ( $k=0.5$ ); in the case of ultrafiltration ( $k=1.0$ ) this is  $1 \text{ m}^3$ . This means that in practice only half of the volume flow of a conventional filter is required in Germany.



The prefilters serve as protective filters

The fundamentally finer filtration removes more protective substances from the water. This means that chlorine finds fewer reaction partners and in turn reduces the chlorine requirement.

Ultrafiltration membranes with filter pores smaller than  $0.02 \mu\text{m}$  not only hold back pollutants, but also bacteria and viruses. Result: germfree water! As a rough guide: a human hair has a diameter of approx.  $50 \mu\text{m}$ , this is more than 2500 times the size.

The membranes are also suitable for saline water. The degrading of the disinfectant products can be achieved via a UV system, addition of powder active carbon or an active carbon filter in the partial flow before the UF is reached.

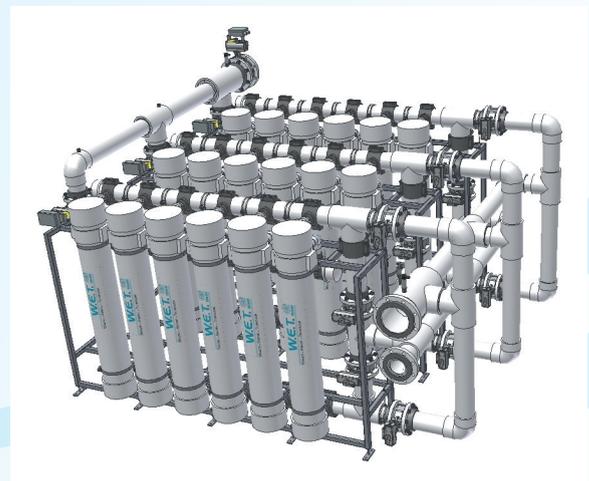
## Configuration and function

The W.E.T. ultrafiltration system works fully automatically with low water, electricity and chemical consumption. The rinsing actions carried out several times a day require only low water quantities. No separate rinsing water reservoir is needed as rinsing takes place with simultaneously generated filtrate. The waste water is removed under pressure. The frequency regulated pump ensures constant filter performance.

The prefilters hold back coarse pollutants and hairs. They are cleaned automatically on a daily basis.

In addition to the water rinsing of the membranes a chemical rinsing action at regular intervals ensures optimum operational success.

The set-up of the W.E.T. ultrafiltration is generally effected on a 3-lane basis with the advantage that one module series is rinsed by the water of the two other membranes in operation, i.e. germfree water.



Two module series rinse the third

pool



...any questions?

Just give us a call or send your query to:

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Innovation and progress  
in water technology