



Process for the reuse
of valuable rinse wastewater

W.E.T.recycle

Clean, germ-free water through state-of-the-art ultrafiltration.

W.E.T.recycle

Rinse wastewater – too good for the sewer: Saving water, wastewater, and heating energy

By using the W.E.T.recycle, valuable rinse wastewater is reused in accordance with DIN 19645. Recycling can reduce the operating costs of swimming pools because the recycled filling water no longer needs to be heated to pool temperature. At the same time, costs for fresh water supply and wastewater disposal are minimized.



Water recycling with W.E.T.recycle – germ-free, resource-saving and low-maintenance!

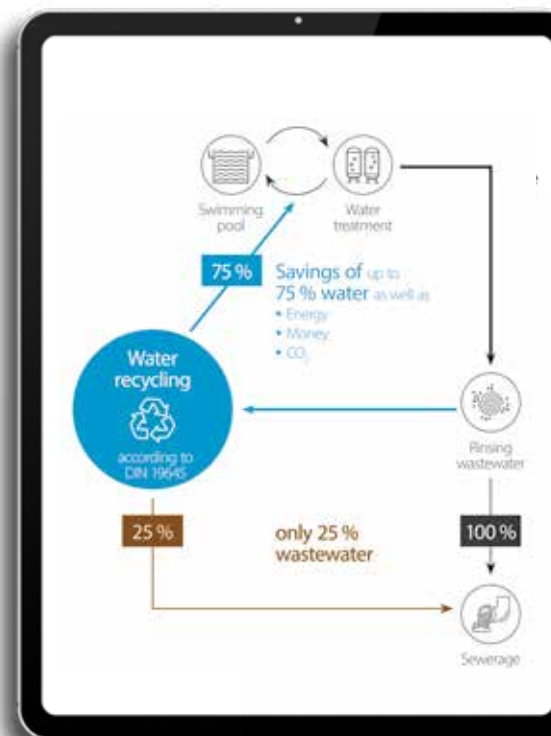
If rinsing wastewater is treated as filling water in accordance with DIN 19645, it complies with DIN 19643. Extraction from the rinsing wastewater storage tank takes place via surface suction device.

The prefilter is used exclusively for the separation of coarse impurities. Other absorbable substances, such as combined chlorine, AOX, etc., are also removed via activated carbon.

The filtrate of the ultrafiltration is germ-free and is fed to an intermediate tank. After a specified operating time, the ultrafiltration is backwashed with water from the intermediate tank or subjected to chemical cleaning.

The water from the ultrafiltration is desalinated by the reverse osmosis, thus preventing the „salting up“ of the pool water circuit with chlorides, sulfates, nitrates. To prevent deposits on the reverse osmosis membranes, the dosage of antiscalant is necessary.

At the end of the treatment process, the water will first be hardened up to maintain the acid capacity in the pool and then chlorinated.



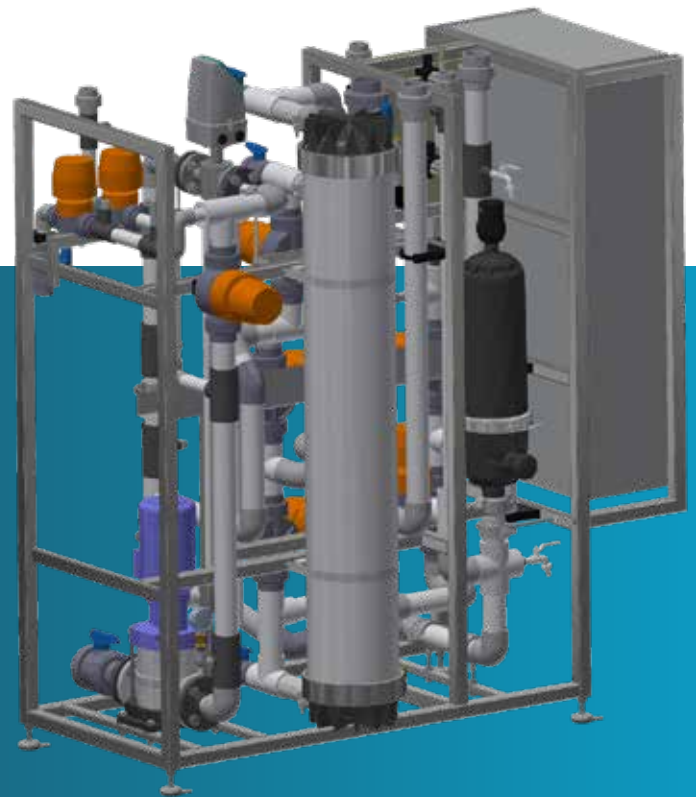
This series incorporates the know-how of more than 20 years of experience

BASIC EQUIPMENT:

- Surface suction device
- Feed pump, frequency controlled
- Prefiltration
- Ultrafiltration
- Activated carbon filtration
- Reverse osmosis system
- Backwash water tank incl. rinsing water pump
- Plant-related dosing equipment
- Automated fittings
- Measuring devices for pressure, flow, conductivity and chlorine monitoring
- Switch and control technology, modularly expandable incl. PLC
- Data archiving
- 7-inch touch panel with visualization software

AVAILABLE AS AN OPTION:

- Remote monitoring
- Software interfaces to higher-level control
- Dosing station for sodium bicarbonate
- Concentrate treatment by means of activated carbon in compliance with the respective discharge regulations
- Permeate distribution to multiple pool circuits



Your benefits at a glance

- Cost reduction due to recycling of the rinse wastewater
- Short payback periods
- Savings in costs for heat, water and wastewater fees
- Fully automatic operation
- Operators only required for control and canister change
- Low overall height (2.0 m), transport through door with 0.8 m width
- Detailed planning documents for standardized plants or customization
- Preparation of cost/benefit calculations

Technical data

W.E.T.recycle		1-2-8	1-3-12	1-4-16	1-1-40	1-2-80	1-3-120
Raw water capacity, max.	m ³ /h	0,8	1,2	1,6	4,0	8,0	12,0
Filtrate capacity, max.	m ³ /h	0,6	0,9	1,2	3,0	6,0	9,0
Total membrane area	m ²	8	12	16	40	80	120
Number UF membranes	4 m ²	2	3	4	–	–	–
Number UF membranes	40 m ²	–	–	–	1	2	3

DIN-COMPLIANT WATER TREATMENT TECHNOLOGY

In DIN 19645 there are three different use cases for recycling of the waste water from filter backwash processes.

With **W.E.T.recycle**, you have the choice.

- **TYPE 1:**
Water for use as fill water and filter rinse water
- **TYPE 2:**
Water for use as surface cleaning, toilet flushing and irrigation
- **TYPE 3:**
Water for direct discharge into a body of water

Higher flow rates,
multi-line configuration or
individual setups on request.

We will gladly advise you!

The equipment is designed for continuous operation, durability and high maintainability. Hydraulic connections and control communications can be project specific.

Information at:
www.wet-gmbh.com

