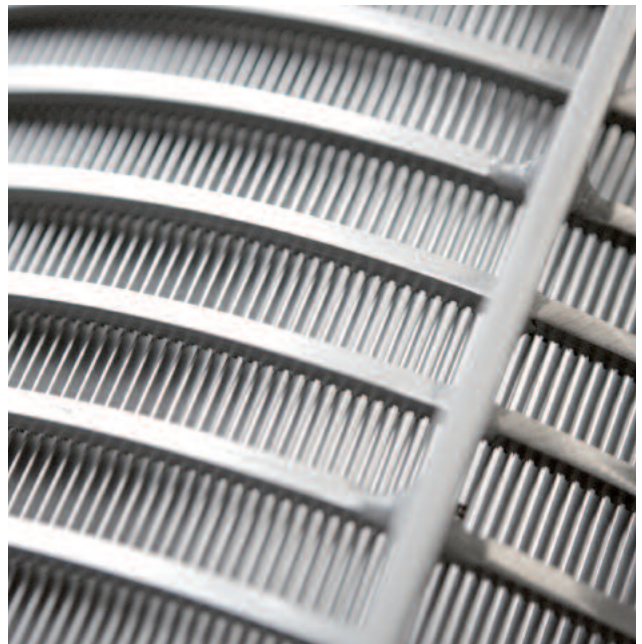
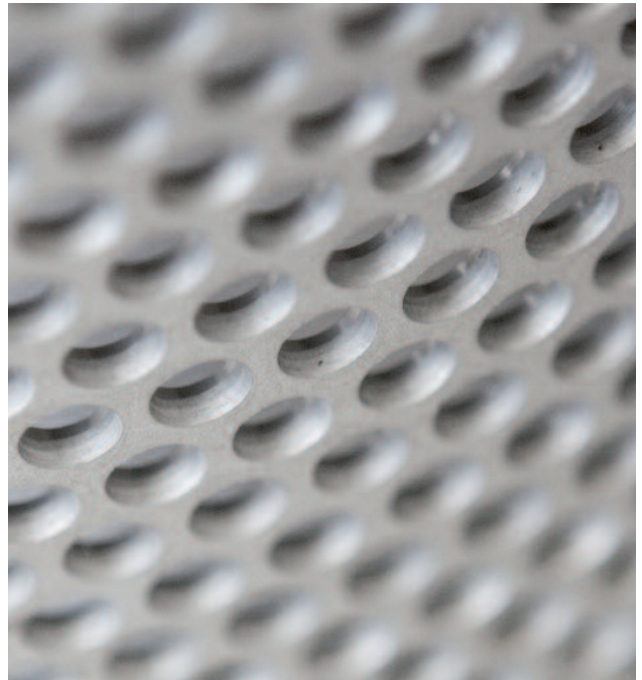


Decentralised Wastewater Treatment with Membrane Technology



- Clear concepts for clean water
- Onsite sewage treatment systems –
the innovative complete solution

Clear concepts for clean water



➤➤ All life originates from water.
All life is preserved through water.

Water is the origin of all life. Groundwater protection and therefore the protection of nature and humans, depends on the way in which we manage the disposal of our wastewaters. This question arises especially where the connection to the public sewer system means a massive impact on nature, for instance picturesque holiday resorts, small residential areas, or idyllically situated golf courses.

HUBER Technology offers tailored complete systems for onsite solution of the customer's wastewater problem – decentralised and independent. The modular, flexible design of the innovative HUBER complete system with membranes is adjustable for different local conditions and individual requirements. Designed for up to 2,500 persons the systems are available as mobile plants or stationary units, they can be installed above ground or optionally underground and are frost-proof.

Optimally applied, the innovative HUBER technology reduces fresh water consumption to 80%, and the clarified water can be reused as service water. Remote monitoring ensures trouble-free system operation. In case of noticeable problems the remote control system automatically notifies the HUBER service engineers. The energy and operating costs are minimised.

Decentralised wastewater treatment with membrane technology guarantees clean water of high quality where the connection to existing sewer systems is difficult to achieve.

➤ Golf courses

The more idyllically situated, the more difficult the connection of golf courses to the municipal sewer system becomes.

The advantages of the HUBER solution complement one another: Decentralised wastewater treatment is independent, recovery of service water reduces fresh water consumption – ideal specifically where extensive green spaces need to be irrigated. The recovered water can be fed into ponds or water reservoirs. The HUBER solution is both ecological and economical and its compact design allows for installation even with limited space.

Man makes even deserts bloom.

Where the water ends the world ends.



»» Hotels



It is often the remoteness amidst untouched nature that makes a hotel especially charming but the wastewater treatment problematic. Furthermore, the water demand is especially high when water is scarce, during the hot tourist season. The problem is aggravated if the hotel is situated in a sensitive area or on an arid island.

HUBER onsite sewage treatment systems not only guarantee independence from public authorities and (wastewater) systems and from municipal charge rates, but also provide service water for air conditioning plants, irrigation of lawns, toilet flushing, etc. therefore reducing fresh water demand – an eco-friendly solution in harmony with nature.



Water is the principle of all things, all things are of water.

All things return to water.

➤➤ Isolated homes

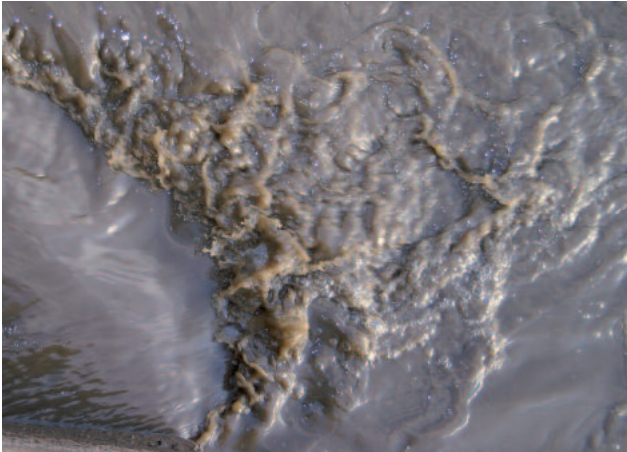


Building long sewers is expensive and affects the ecosystem.

The innovative HUBER onsite sewage treatment system guarantees optimal nutrients and water recycling, for independence from sewer systems and ecologically sustainable wastewater treatment. Due to its modular design the frost-proof plant can be adjusted to local requirements, for example within a historical architectural ensemble or a nested mountain village. HUBER onsite sewage treatment systems can be installed underground or above ground, as mobile or stationary units.

It is not the river but the water that runs.





►► The system



The HUBER concept of decentralised wastewater treatment combines two effective principles: Biological wastewater treatment and highly efficient membrane filtration



During the clarification process the wastewater passes through three stages:

1. Pre-treatment

Screenings are retained by a 3 mm fine screen, continuously removed and collected in a container. The sludge is continuously removed and the screenings collection container emptied when required.

2. Aeration tank

Biological degradation of the substances dissolved within the water takes place inside the aeration tank. Microbial degradation is supported by sensor-controlled oxygen supply. Aerobic stabilisation eliminates odours.

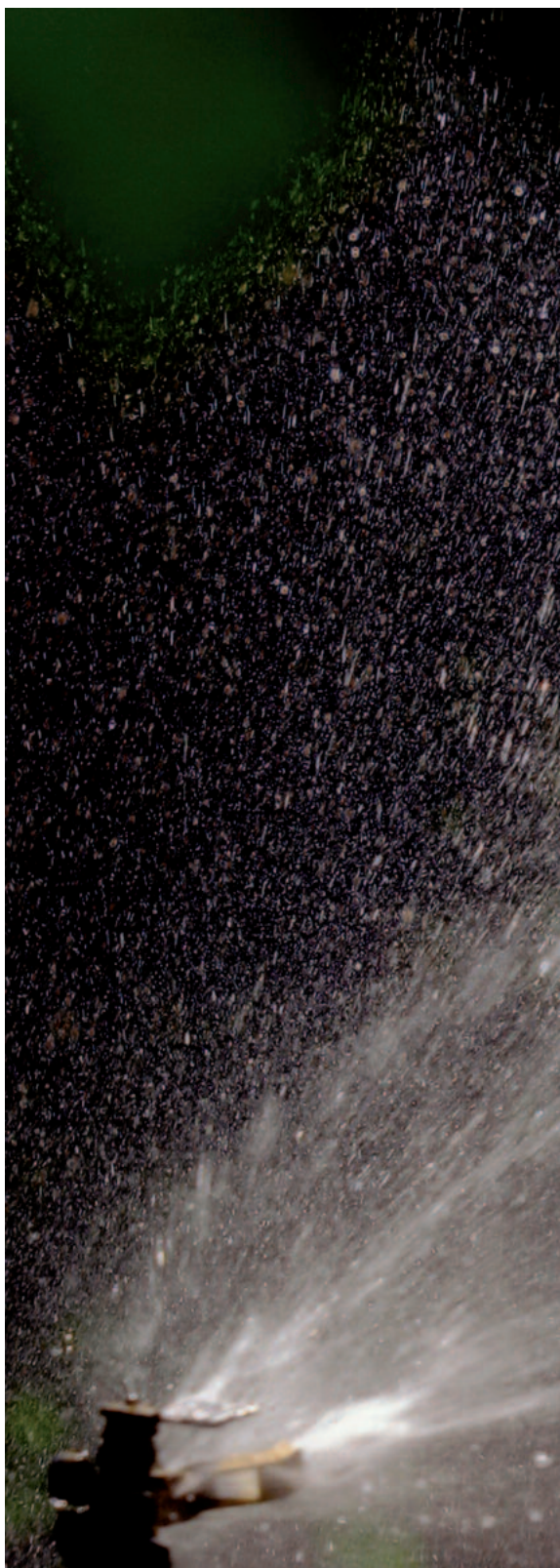
3. Filtration

Especially developed membrane modules remove the rest of solids, bacteria and virtually all germs. The pore size of the fine membrane filters is 38 nm, 1,500 times smaller than the diameter of a human hair.



The result:

Excellent water quality in compliance with the European Directive for Bathing Water



►► Benefits

Economical and ecological

- No expensive sewer building costs
- Independent of public sewer systems
- No impact on the environment

Compact and flexible

- Modular system
- Compact design, small footprint
- Fully automatic operation with remote monitoring

Effective and efficient

- Low energy consumption
- High clarification efficiency
- Reduced fresh water consumption by up to 80%

Convincing and clear

- Excellent effluent quality, in compliance with the European Directive for Bathing Water
- In compliance with present legislation
- Optimal water circulation

HUBER SE

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Decentralised Treatment
Image Brochure