

HUBER BioMem® Compact MBR System



Flexible MBR solution for a variety of applications

►► The situation

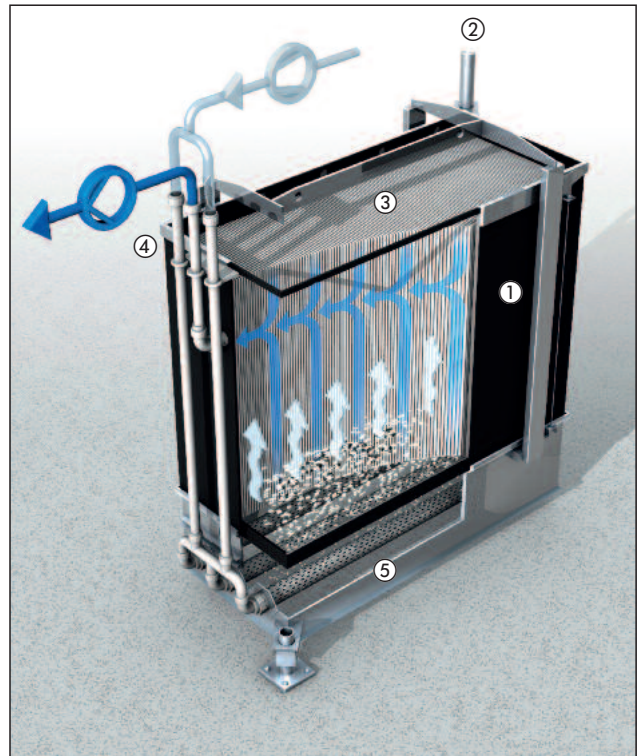
Centralised wastewater treatment plants ensure the reliable disposal of wastewater in many cities on all continents of the world. But, in the long run, also thinly populated decentralised areas need safe wastewater disposal solutions. As the costs for sewer system construction and operation are often uneconomical, decentralised wastewater treatment is gaining in importance.

A particular challenge are remote hotels and holiday resorts, small residential developments and quickly growing container villages common in emerging countries where the supply of water for the irrigation of green areas, fields and parks is more of a problem than wastewater disposal. In most cases, the water is still supplied by tanker vehicles, which is expensive and ecologically problematic. The protection of eco-systems and water shortage in many areas of the world requires special, future-oriented solutions.



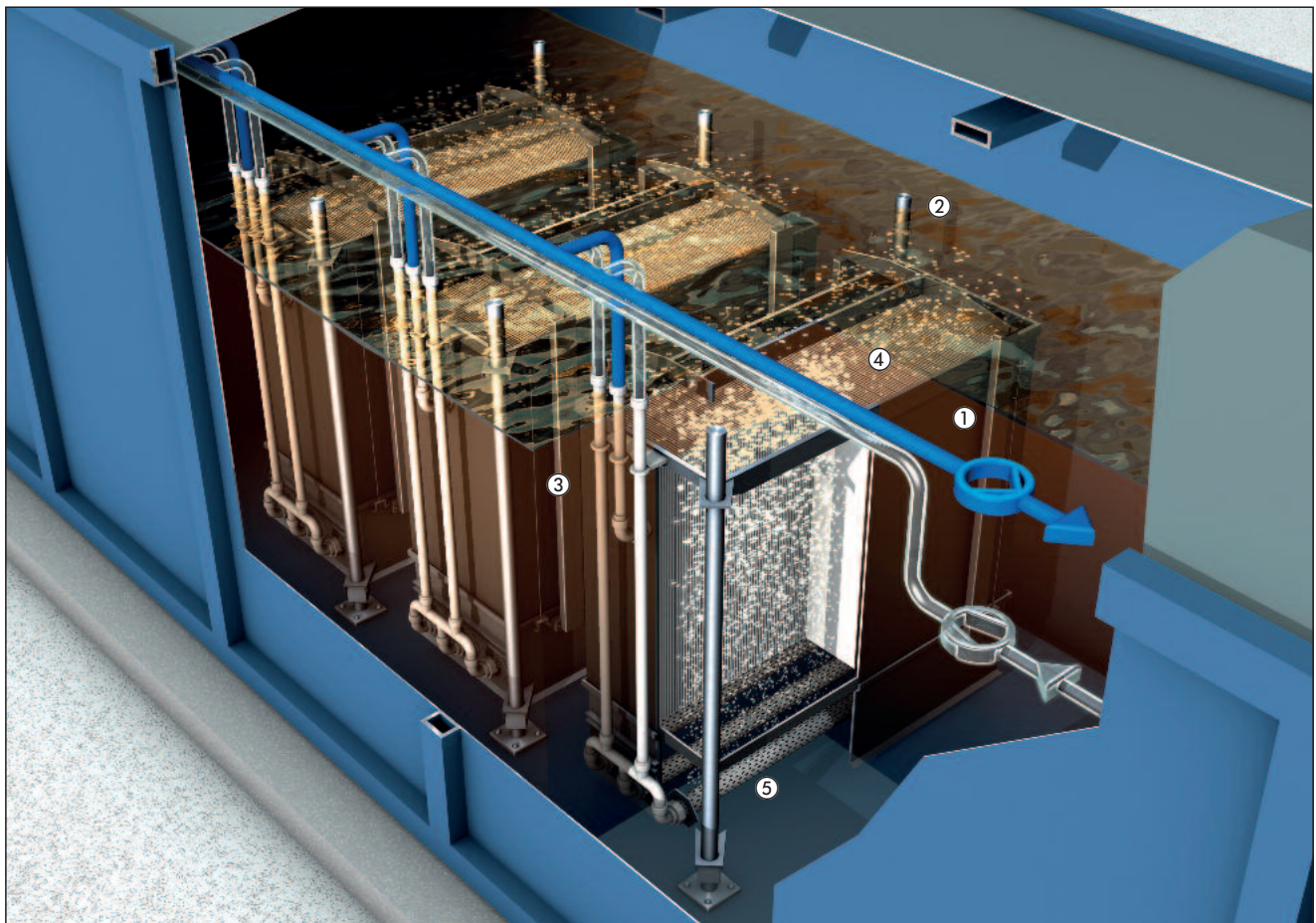
►► The solution

Membrane represents a key technology in the field of water reuse. We have therefore based our solution on the combination of the conventional activated sludge system and ultrafiltration instead of secondary clarification. The HUBER membrane modules ① can be installed directly in the biological system or in separated filtration chambers with guiding rods ②. The ultrafiltration modules ③ separate the activated sludge from the permeate which is pumped to the top prior to being discharged ④. Air tubes ⑤ installed below the membrane ensure that covering layers in the gaps between the plate membranes are removed and fouling is effectively prevented.



➤ The advantages of the HUBER BioMem®

- Low operation and energy costs
- High-efficiency scouring
- No permeate backwashing required
- Membranes made of well-proven, durable PES material (more than 10 years experience)
- All structural elements made of high-quality stainless steel
- Modular design, system options available
- Available for installation in tanks or as containerised units
- Operating regime adaptable to specific requirements
- Available as prefabricated system solution



➤ Applications

- Municipal wastewater treatment plants
 - centralised
 - decentralised
 - Hotel wastewater treatment plants
 - Universities
 - Container plants
 - Office buildings
- Industrial wastewater treatment plants
 - Textile industry
 - Meat processing industry
 - Beverage industry
 - Automobile industry
 - Shopping malls
 - etc.



We provide HUBER BioMem® solutions for all kinds of applications, whether industrial, municipal, centralised or decentralised.

HUBER SE

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