

HUBER MembraneClearBox® – Biological sewage plant for up to 500PE



- The solution to your municipal wastewater problem
- Retrofit equipment for existing septic tanks
- Bacteria-free and germ-free effluent
- Minimised sewer building costs



»» The situation

It is often the case that residential estates, municipalities, solitary farms or community centres (such as sports facilities) are not connected to central or semi-central wastewater treatment plants. Wastewater generated in these places is still discharged via individual multi-compartment septic tanks. This disposal route can be damaging to groundwater and so alternative solutions must be found.

In addition hotels and holiday resorts in remote locations need their own facilities for wastewater treatment and ideally recycling.

»» The solution

The biological sewage plant HUBER MembraneClearBox® for up to 500 PE

The MembraneClearBox® system was developed for small sewage treatment plants for up to 500 PE. The system combines the benefits of biological wastewater treatment and membrane filtration with submerged ultrafiltration membranes. The units consists of an aeration system and the MembraneClearBox® ultra-filtration rack with membrane modules. The number of modules is throughput-dependent.

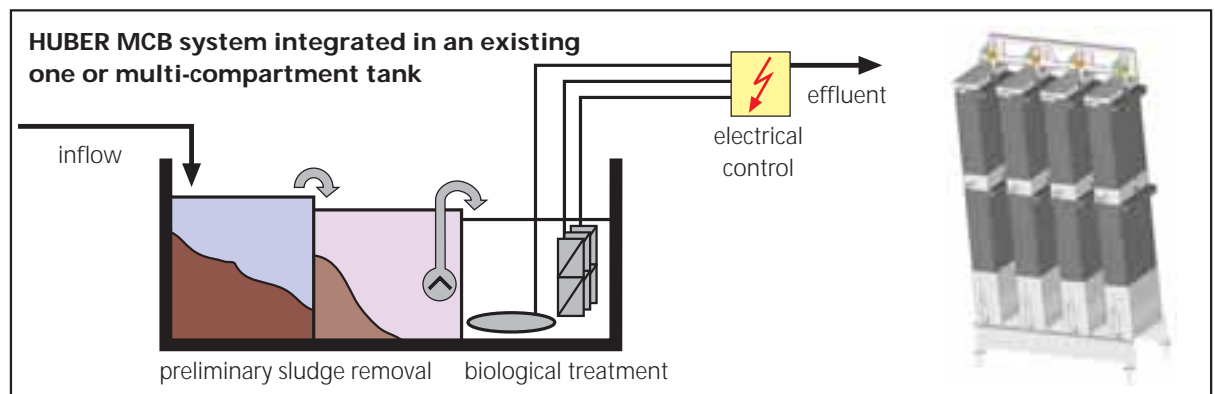
The effluent quality is so high that the treated wastewater can be used for flushing toilets. This can reduce the drinking water demand of a household by up to 40 % ! The effluent can also be used for irrigation.

»» System description

The wastewater from the each source flows through a (possibly new) local network into a settling tank to remove solids (alternatively a mechanical coarse material separation system can be used). From the settlement tank, the wastewater overflows into a second intermediate storage tank, and from this tank, the wastewater is pumped to the treatment tank. The treatment system consists of an aeration unit installed at the tank bottom and the MembraneClearBox® membrane module rack containing up to 36 individual modules depending on required throughput. Ancillary equipment can be positioned in an adjacent building.

»» The benefits

- ▶ Minimised sewer building costs
- ▶ Bacteria-free and germ-free effluent
- ▶ Use of existing tanks
- ▶ Reuse of treated wastewater saves drinking water
- ▶ COD < 30 mg/l, NH₄-N < 1 mg/l, with denitrification NO₃-N < 25 mg/l



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Subject to technical alteration

HUBER
MembraneClearBox®