

# HUBER Membrane ClearBox®



## Compact MBR System

- for outstanding effluent quality
- permitting water reuse
- for flows of up to 600 GPD
- fits into septic tanks



## Applications

- for homes in environmentally sensitive areas, such as water protection areas, lakes, etc.
- for small camps
- for outstanding effluent quality, permitting water reuse
- for flows of up to 600 GPD (for larger flows, see our Membrane HoneyComb®), and for peak flows of up to 0.7 GPM

## Features

A tank and our Membrane Clearbox® are essentially all that is needed for a compact MBR-system.

The tank has a minimum of two, preferably three compartments: The first one or two compartments serve for sedimentation of primary sludge and retention of scum. The last compartment, where the Membrane Clearbox® is installed, serves as a biological reactor and has a mixed liquor (biomass) concentration of up to 20,000 ppm.

The Membrane Clearbox® includes:

- a package of ultra-filtration membranes,
- a pump pulling clear effluent through the membranes,

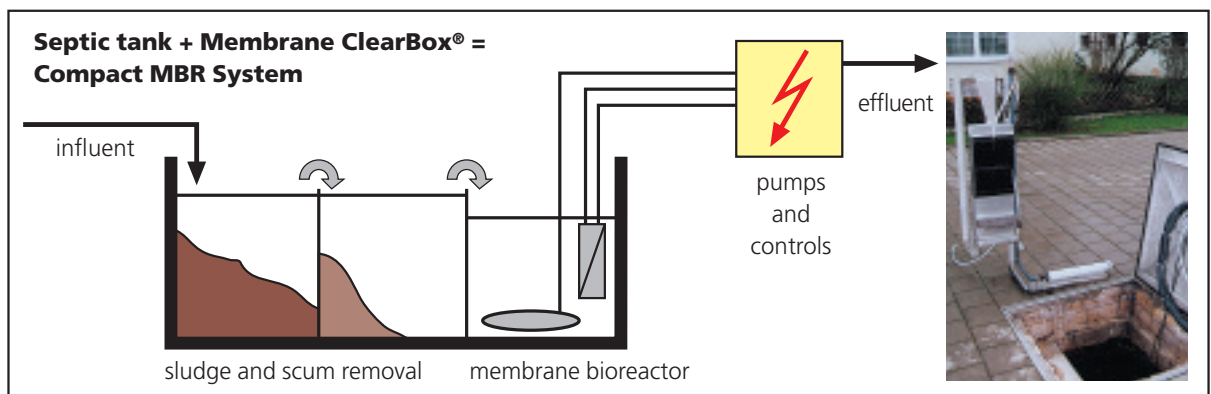
- a blower for scouring air preventing fouling on the membrane surfaces,
- a blower and a fine bubble diffuser for biomass aeration,
- an electric connection and all controls for automatic operation.

Once per year the membranes are chemically cleaned and thus regenerated. Sludge is removed once per year or even less frequently.

All solids are retained by the membrane; the effluent is crystal clear and germ-free (all bacteria and most viruses are retained). The effluent contains nutrients and can be reused for irrigation, or as flush water for toilets.

## Benefits

- Easy installation of the Membrane Clearbox® into existing tanks, e.g. septic tanks
- Automatic operation
- Outstanding effluent quality:  
Suspended solids = 0; COD < 30 ppm;  
Ammonium (NH<sub>4</sub>-N) < 1 ppm
- All germs are removed
- Nutrient-rich effluent for irrigation



HUBER TECHNOLOGY, Inc.

9805 NorthCross Center Ct.  
Suite H  
Huntersville, NC 28078

Phone: (704) 949 - 1010

Fax: (704) 949 - 1020

huber@hhusa.net

<http://www.huber-technology.com>

Subject to technical modification

**HUBER**  
MembraneClearBox®