

EcoSBR
innovation by EcoTec



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EcoSBR

Individual Homes Sewage Treatment System

Clean water for your environment



Take the first step to protect your environment with EcoSBR

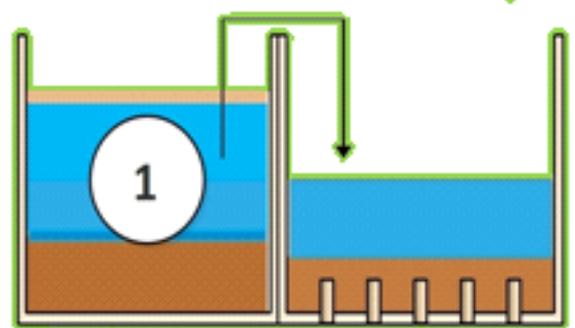
Affordable Home sewage treatment plant with very low operation cost

EcoSBR follows the standard sequential batch reactor process with innovative airlift principles replace pumps and mechanical decanters.

1. Collection and filling

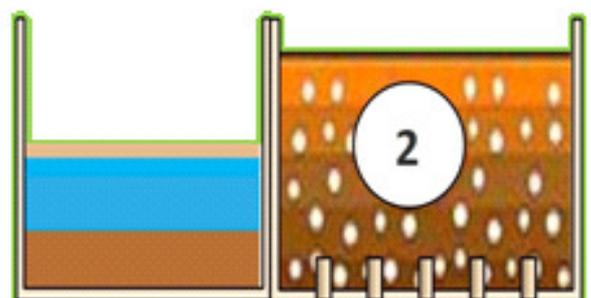
All the household wastewater and sewage enters the collection tank also called the equalisation, sludge storage and buffer tanks. Here particles like soil settle at the bottom and lighter substances float at the top. Wastewater with suspended solids is available for further treatment.

Required quantity of wastewater from the collection tank is pumped into the aeration chamber also called as SBR chamber/reactor for treatment. Pumping is carried out through pneumatically operated airlift arrangement. This is a non clog, non foot valve arrangement, that cannot clog at any time.



2. Secondary treatment with aeration

With the support of fine bubble aeration from the bottom of chamber activated sludge consumes the suspended solid material in the wastewater. Fine bubbles create oxygen rich environment and keep the activated sludge in suspended conditions by constantly agitating the water. Aeration is discontinued during the process when there is no need for excessive oxygen in water.



-Retrofitting septic tanks possible-Protects Nature-

- Absolutely silent operation- -unique automation for small plants -

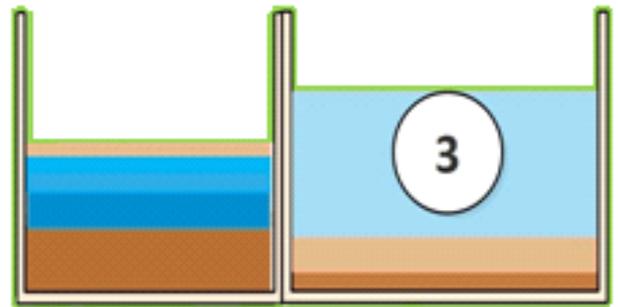
-Stepper motor valves for home plants for reliability-

-Depend on Controls and not on Operators-

-Optional remote monitoring to your STP-

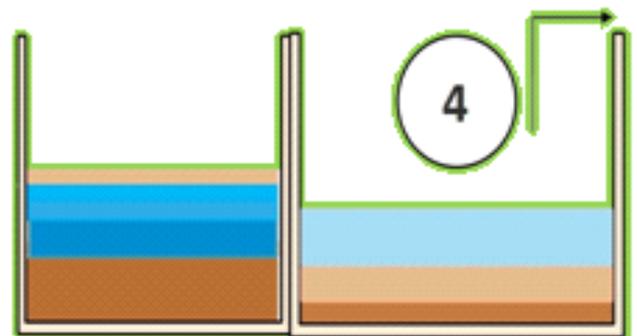
3. Sedimentation

The aeration is shut down where heavy activated sludge and microbes that are usually denser than water form heavy flocks and settle at the bottom of the chamber. During the sedimentation process clear water with very less suspended particles is formed at the top layer.



4. Clear water extraction

As a final step to treatment clear water from the top layer is removed and sent out for disposal or reuse. Excessive activated sludge is transferred to the collection chamber for further storage and further treatment. The decantation and sludge transfer operation is carried out with pneumatic airlift procedure. The cycle repeats for ca



Benefits

Each EcoSBR plant is designed with our in depth knowledge and experience in sewage treatment systems and according to the need improve treatment standards to protect environment from water pollution. EcoSBR design with long interval for sludge removal makes EcoSBR the right solution for single home. EcoSBR is an innovation ahead of convention and yet based on reliable SBR process.

Advantages

- Very low operating cost
- Low maintenance as we avoid using complex electro mechanical equipments
- Very high operational safety
- Low energy consumption
- Simple and robust in construction, thus less headache for buyer
- No use of chemicals
- We avoid usage of too many pumps and mechanical devices

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