

Decentralized Treatment Systems

... with the help of nature we treat your domestic wastewater...

Approach

A DTS or "Decentralized Treatment Systems" is not a technology package, but a technical approach led by the principles of decentralization, simplification and recycling.

A DTS treats wastewater making maximum use of natural gifts like gravity, microbiological activity and temperature. This results in a system that can work without technical energy input and needs rather moderate maintenance efforts.



Benefits

DTS provides state-of-the-art technology at affordable prices.
DTS enables the reuse of water, nutrients and energy of the wastewater.

No energy is required for the operation of the DTS.

No complex mechanical components are part of the DTS.

DTS's effluents meet the requirements stipulated in environmental laws.

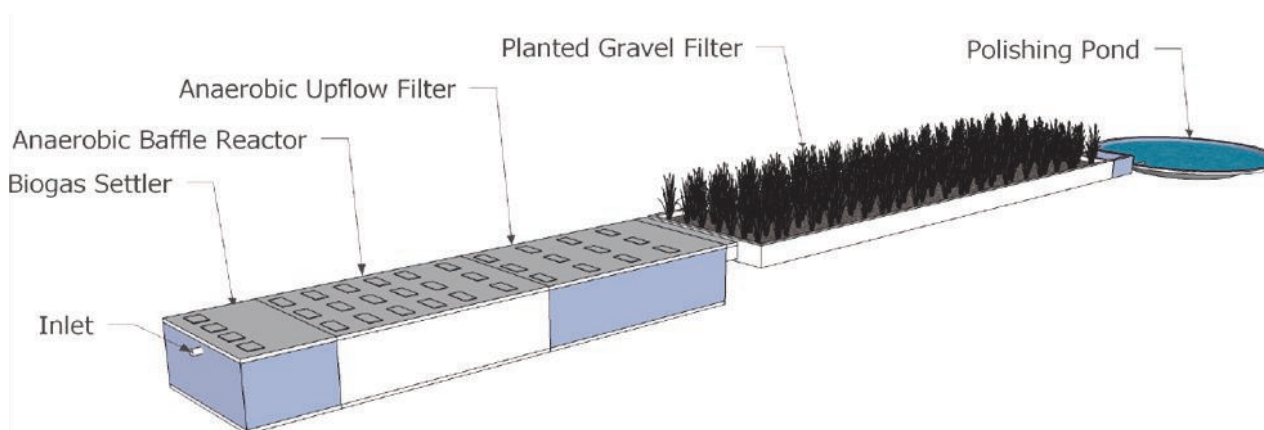
DTS treats wastewater flows from 1 to 1000 cubm/d.

Treatment steps

Primary treatment: retention of contaminants by sedimentation or floatation occurring in a Biogas Settler.

Secondary treatment: anaerobic microorganisms decompose organic pollutants in the Anaerobic Baffle Reactor and Anaerobic Up Flow Filter, obtaining a BOD reduction of 70 to 90%.

Tertiary treatment: occurring in a Planted Gravel Filter and Polishing Ponds, which further remove organic pollution, avoid smell, remove colors and pathogens, with a BOD reduction up to 95%.



Related costs

Construction costs: are site-specific, and will depend on the volume to treat, soil conditions, terrain, slopes and local material costs. The costs are lower than conventional aerobic systems, since no mechanical or electrical items are required.

Operation costs: are very low, since a DTS requires no process energy and replacements of spare parts (about 5 to 15% of those of conventional systems).

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