



Pre-cleaning waste water: separator.



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Pre-cleaning of waste water: separator

Reducing the COD by up to 70per cent

The separator is a system for the mechanical separation of solids and liquids. The pre-treatment of waste water is carried out very efficient. Much of the turbidity and solids are removed via an ingenious combination of precisely calculated fluid dynamics, turbulence and gravitational forces. The chemical oxygen demand (COD) can be reduced by up to 70 per cent.

The pre-cleaning process itself needs no energy and no chemicals. The reduction of CSB has the consequence that less air needs to be blown into the water to aerate the bacteria in the biological treatment. So less energy is required, the operating costs of the waste water treatment plant can be reduced.

For overloaded waste water treatment plants the separator and its effective pre-treatment saves an expensive expansion and comprehensive structural measures. If a waste water treatment plant is built from new, it can be built smaller.

The system can be adapted for every waste water treatment plant. According to the size of the separators, there is the flow capacity of from 0.5 to 500 m³ per hour.



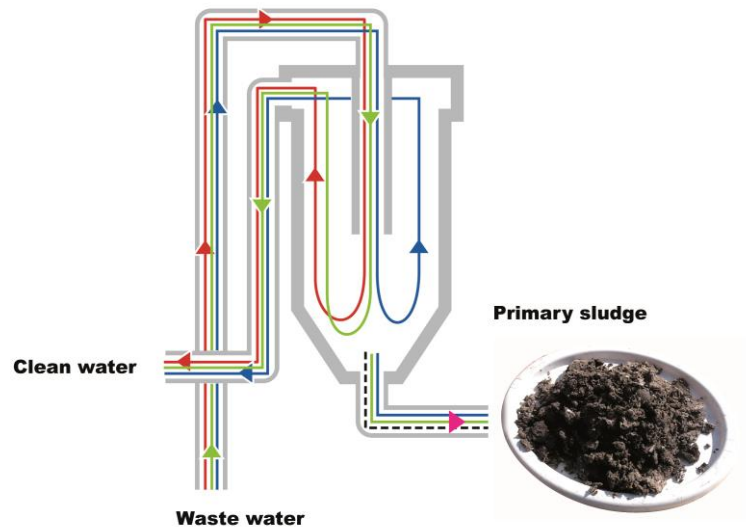
- efficient solid-liquid separation
- up to 70 % less COD
- less energy demand in aeration
- less operating costs

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The waste water is pumped into the separator. There the liquid phase is separated from the solids by gravity. The liquid phase (pure water) is recycled to the process or fed to further treatment steps. The separated solids sink to the bottom where the suspension is sucked off for subsequent sludge treatment.

Separator



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The excellent cleaning performance of the separator can be clearly observed.

