

Products

SediPact® Sludge Recirculation and
Thickening Clarifier

SediCore® Sand Ballasted Flocc Clarifier
(MBF)

SediCore® Carb Tertiary Treatment
Process

SediCore® Softening Hardness Remove
Clarifier

SediCore® MicroSand Ballasted Clarifier
SediCore®+Filter Package

SediMet® Heavy Metal Remove Package

SediPact® Sludge Recirculation and Thickening Clarifier

The SEDIPACT® technology is a universal and multi-purpose clarification process that can be adapted under different forms to meet the TOP various needs of our municipal and industrial clients. The SEDIPACT® process combines the coagulation, flocculation and counter-current lamella settling stages in a single unit. Inclined lamella plates located side-by-side create modular sedimentation units. Compared with conventional settlers this configuration provides a larger settling surface area within a similar footprint. Moreover, the lamella plates enhance settling of the less soluble flocs by improving the hydraulic distribution of the water and reducing turbulence.

Process Description

a) Coagulation

Coagulant is injected into the coagulation zone and destabilize suspended solids (SS) into settleable.

b) Flocculation

Recirculated sludge and polymer are added into the flocculation zone, to enhance the forming of large, easily settled microflocs.

c) Sedimentation

The flocculated water enters the bottom of the lamella settling tank. The water flows upwards, in the opposite direction to the settling flocs, which are deposited along the lamella plates and settle downwards under the effect of gravity.

The sludge that accumulates in the bottom of the tank is regularly removed utilizing scraper mechanism.

With proper design of sludge zone, the sludge is thickened by gravity.

d) Sludge Recirculation

The sludge in the bottom of tank is pumped to flocculation zone as seed which can accelerate the formation of flocs.

SediLam® Lamella Clarifier

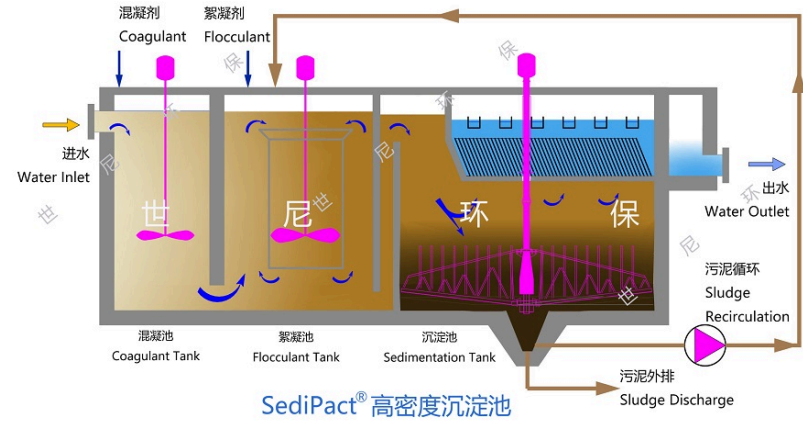
H Type High-Speed Sand Filter

Moving-bed Biofilm Reactor (MBBR)

Compact Floatation Unit

SediGlass® Glass Filter Media

SediSand® MicroSand



Characteristics

● Compact

The SEDIPACT® process combines the coagulation, flocculation, lime softening, and lamella settling, sludge thickening stages in a single unit. footprint is 5 to 10 times less than that of a conventional treatment system.

● Reinforcement flocculation

The innovative draft tube in the flocculation zone ensures optimum utilization of all chemicals, enhanced reaction kinetics and a smaller tank footprint.

● Sludge thickening

The SEDIPACT® process allows to get high concentrated sludge (at least 10 g/l and until 100 g/l for clarification or 150-400g/L for lime softening) which fulfils the requirements of the new regulation for sludge treatment. The resulting sludge may be directly admitted on a dewatering machine.

● Stability and efficiency

Benefiting from lamellar of thickened sludge recirculation, SEDIPACT® takes changing raw water characteristics and consistently achieves high settled water quality.

● Multi functioning

the SEDIPACT® can be used as a universal settler for removing of SS, NTU, algae, hardness, metal.

Applications

- Surface water clarification
- Polishing for drinking water
- Carbonate removing and water softening

Project



Polluted River Water Treatment Project



Coal Mine Wastewater Treatment Project



Hardness Remove Project for Steel Plant



Wastewater Treatment Plant Upgrading Project

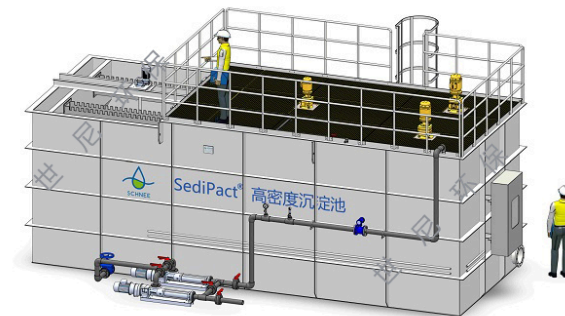


Tobacco Wastewater PreTreatment Project

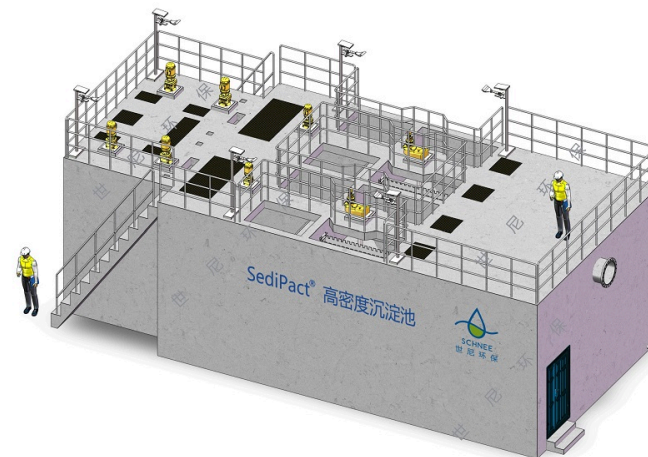
- Seawater clarification
- Urban wastewater purification
- Stormwater treatment
- Primary, secondary and tertiary wastewater treatment
- Biofilter backwash treatment
- Wastewater reuse

Products

Package



Civil Structure



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MORE

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