

Products

SediPact® Sludge Recirculation and
Thickening Clarifier

SediCore® Sand Ballasted Floc Clarifier
(MBF)

SediCore® Carb Tertiary Treatment
Process

SediCore® Softening Hardness Remove
Clarifier

SediCore® MicroSand Ballasted Clarifier

SediCore®+Filter Package

SediMet® Heavy Metal Remove Package

SediCore® Sand Ballasted Floc Clarifier (MBF)

The SediCore® process (MBF Microsand Ballasted Flocculation) is a compact, innovative type clarification system that utilizes microsand as a settling aid for floc formation. The microsand provides surface area that enhances flocculation and acts as a ballast or weight. The resulting sand ballasted floc demonstrates unique settling characteristics, which allow for clarifier designs with high overflow rates and short retention times. These designs result in system footprints that are between 5 and 50 times smaller than conventional clarification systems of similar capacity.

Process Description

Chemical coagulant is added to the raw water to coagulate soluble substances and to destabilize suspended solids and colloidal matter (coagulation) in the influent stream. The coagulated water then passes into an injection chamber, where microsand is added. The floc is fixed to the microsand with the polymer in the maturation chamber, where it acquires weight and volume. Finally, the flocculated water passes through the lamellar clarifier, where the ballasted floc settles and clarified water overflows. Settled sludge, bounded with microsand, is continuously pumped from the bottom of the clarifier and recycled through hydrocyclones, where the microsand is separated from the sludge. The separated sludge is sent to waste and the microsand is recycled back to the process.

SediLam® Lamella Clarifier

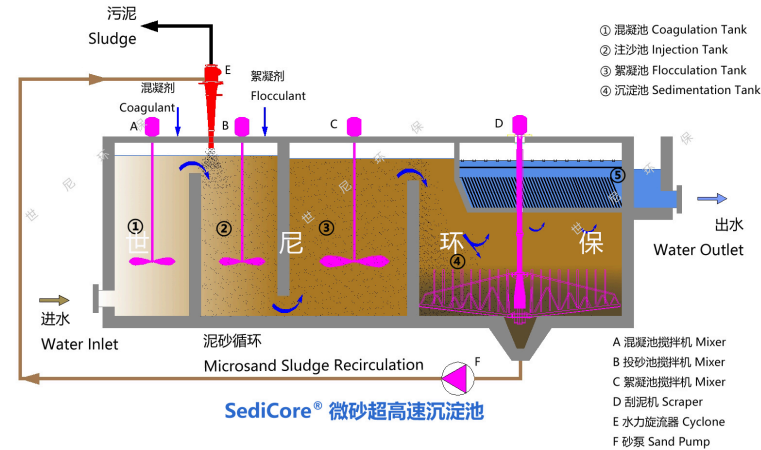
H Type High-Speed Sand Filter

Moving-bed Biofilm Reactor (MBBR)

Compact Floatation Unit

SediGlass® Glass Filter Media

SediSand® MicroSand



Characteristics

• Response time

Inert microsand is always present in the injection and maturation basins and is available to respond immediately once the reactants are added. It is therefore the ideal system for dealing with storm flows, which by their nature occur very suddenly.

• Effluent consistency

Independent of suspended solids loading, the treated effluent characteristics remain almost constant.

• Sludge treatability

The good settleability of the sludge allows it to be thickened and dewatered easily.

• Footprint and Capex savings

Microsand and vigorous mixing considerably reduce flocculation time and consequently the overall footprint of the mixing and flocculation chambers. High up flow velocities (40-120 m/h) produce compact installations and low civil costs, ideal for upgrading existing plants. Efficient use of chemical dosages produces an important reduction in operation costs.

• Stability and flexibility

Changes in raw water characteristics (turbidity, color, temperature and total suspended solids (TSS)) do not significantly affect the clarified effluent quality.

The process will accept wide spreads in suspended solids and flow rate (from 0% to 100% in a few minutes) with no effect on effluent quality. The stability of the process simplifies its operation.

• Water of superior quality

The coagulation/flocculation phase produces a clarified water of superior quality under all raw water conditions.

Products

Project



Polluted River Water Treatment Project



Coal Mine Wastewater Treatment Project



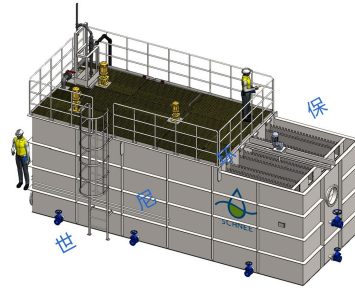
Hardness Remove Project for Steel Plant



Wastewater Treatment Plant Upgrading Project



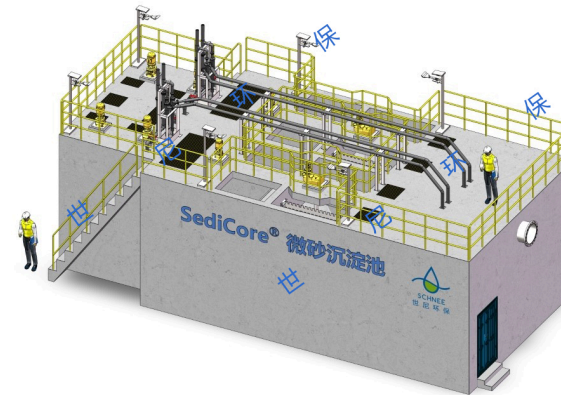
Tobacco Wastewater PreTreatment Project



SediCore®一体化装置规格

型号	SSW1	SSW2	SSW3	SSW4	SSW5	SSW6
参考流量(m ³ /d)	1000	2000	4000	8000	15000	30000
长(m)	4.1	5.1	5.7	8.2	9.2	11.6
宽(m)	1.8	2.4	2.7	3.6	3.6	4.6
高(m)	3.2	3.2	3.2	3.2	3.2	3.7

SediCore® Civil Engineering



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Data download:

PDF-SediCore® Sand Ballasted Flocculation

Clarifier (MBF)



WeChat QR code

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