RSED Rectangular Sedimentation Clarifier



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Technology

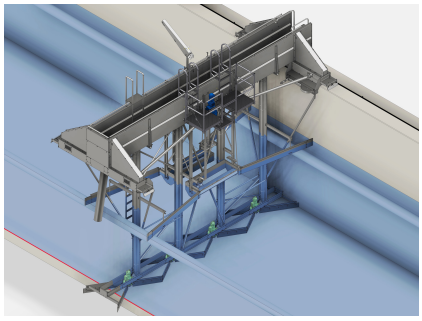
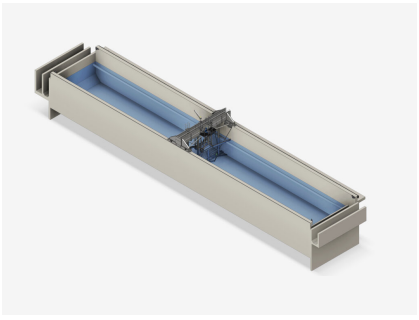
Sedimentation is used in Industrial Effluent Treatment for Pre- Clarification (chemical-physical solids removal) before Biological Treatment or as Secondary Clarification after Biological Treatment to remove Excess Bio Sludge and other Residuals.
The Rectangular Clarifier Tank is used to separate solids (sludge) from liquids through the process of gravity settling. The Inlet flows from the headbox on one side towards the opposite side allowing particles / contaminants to sink and settle.
The RSED Shield Version comprises back- and forward moving bridge, which holds and pulls a an 2-side bottom scraper transporting Sediment Solids into a bottom collecting funnel from where the collected sediments are discharged or pumped to a sludge tank.
On the back- and forward moving bridge of the RSED Suction Version are mounted submerged suction hoods, which tightly overrun the flat tank floor and aspirate Sediment Solids / Flocks. Aspiration is provided by submerged pumps with speed control.
The clarified water overflows a weir on the opposite side of the tank inlet headbox.
Appearing floating scattered matter is collected by bridge both side mounted deflection skim plates and forwarded on each side to a “Floating Skimmer Trough” which scoops a thin fluid film with the floated residuals, which is typically pumped to sludge treatment.

Features

- RSED – SHIELD Clarifier with bottom scraper (Primary Clarification) or alternatively RSED – SUCTION Clarifier with submerged mounted suction hoods, which tightly overrun and flat tank floor and aspirate sediments (Secondary Clarification).
- Rectangular Tank Design in concrete
- “Floating Skimmer Trough” which scoops a thin fluid film with the floated residuals
- Extreme sturdy and reliable Design for trouble free performance

Why to buy

- Reliable Sedimentation Technology for industrial Wastewater Treatment
- Modular 3D design allows easy customizing and cost-effective realization
- CSED design allows SHIELD or SUCTION Technology depending on application
- Multiple Material configurations for machine and tank components available HDG, Stainless, etc.

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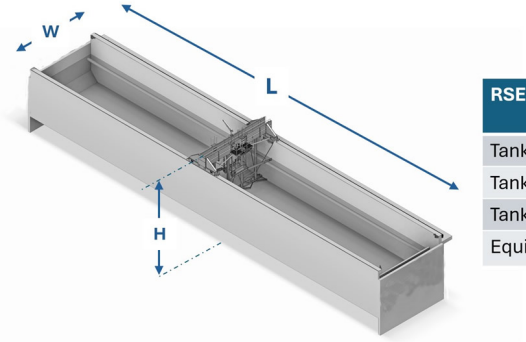
Typical & Proven Process

- Primary Clarification (chemical-physical solids removal) before Biological Treatment
- Secondary Clarification after Biological Treatment to remove Excess Bio Sludge and other Residuals.

See the following Products as well

- DINOSCREEN solid removal from U-drains
- Dissolved Air Flotation Clarifiers – DELTAPURGE , TAURO- Series, Basic– and Quadra- Float
- ELEPHANT Disc Thickener
- BLUEDRAIN and RSP Press for Sludge dewatering
- GYROSAND Filtration

Specifications



RSED Rectangular Sedimentation	**SHIELD Type** Bottom Scraper	**SUCTION Type** Bottom Scraper
Tank Design	rectangular in concrete	rectangular in concrete
Tank Width W [m]	custom design 4 m – 10 m	custom design 4 m – 10 m
Tank Length L [m]	custom design 10 m – 80 m	custom design 10 m – 80 m
Equipment Height H [m]	ca. 7.250 mm	ca. 7.850 mm

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