



Lamella Clarifier

Envifab Equipments

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Inclined plate Clarifier / sedimentation clarifier

Lamella Clarifier / Vertical Clarifier



Remove sediment from wastewater reliably and effectively, using up to 90% less footprint than conventional technologies.

Our Lamella Separator is a unit for separating solid particles or sludge from liquids, usually water. The LT model is a combined lamella sedimentation & sludge thickening unit, specially suited for liquids with high sludge content, as well as applications where high solids sludge is required. The Lamella Separator can also be combined with a flocculation tank.

The liquid to be purified is supplied through the Lamella Separator inlet into the inlet channels and from there via internal inlet ports into the lamella package(s). In those cases where the Lamella Separator is combined with a flocculation tank, the liquid is flocculated before being supplied through the inlet. As the liquid flows through the lamella pack(s), the particles/sludge in the liquid settle on the lamella plates. A sludge layer will build up on the plates, and the sludge by gravity slides down into the sludge thickener and is discharged through the sludge outlet. Sludge discharge takes place via a sludge scraper, which also helps to improve the sludge thickening process. The clarified water is discharged through the outlet via flow-distributing outlet flumes.

Main Advantages

- Space requirement can be reduced by up to 90% when compared with a settlement tank.
- Unique, patented flow control system increases reliability.
- Up to 10 m² of settling area per square meter of ground area.
- Supplied as a complete unit for easy installation.
- Available in standard and site-specific versions.
- Minimal operating and maintenance costs.
- Can be supplied with integral flocculation tank & mixer.

Main Applications

Industrial Application

- Pre-water Treatment
- Backwash Water Treatment
- Primary and Secondary Settling
- Tertiary Treatment
- Sludge Thickening
- Industrial Process water
- Chemical industry – purification and thickening
- Pulp & paper industry
- Iron & steel industry, mill scale removal
- Metal finishing – treatment of metal surfaces
- Metal Hydroxide Wastewater
- Pressure/vacuum Filtrate Clarification
- Purification in biological cleaning processes
- Recirculation of water in the potato and vegetable industry
- Treatment of water in power plant dust scrubbers

...and many more, where solids must be separated from fluids
by sedimentation

Municipal Applications **Water & Waste water**

- Pre-water Treatment
- Backwash Water Treatment
- Primary and Secondary Settling
- Tertiary Treatment
- Sludge Thickening



Works:

Envifab Equipments

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