

Lamella Clarifier

ECODYNE Limited



For 40+ years, Ecodyne has supplied **Lamella Clarifiers**.

The Ecodyne Lamella Clarifier minimizes maintenance and operating costs with a compact design requiring significantly less space than standard clarifiers. The Lamella is ideal in new plants or for upgrading existing installations where space is limited. The system configuration ensures laminar flow conditions, which result in hydraulic uniformity and high effluent quality. Point-source treatment with the Lamella is appropriate for many applications.

Standard Design Features

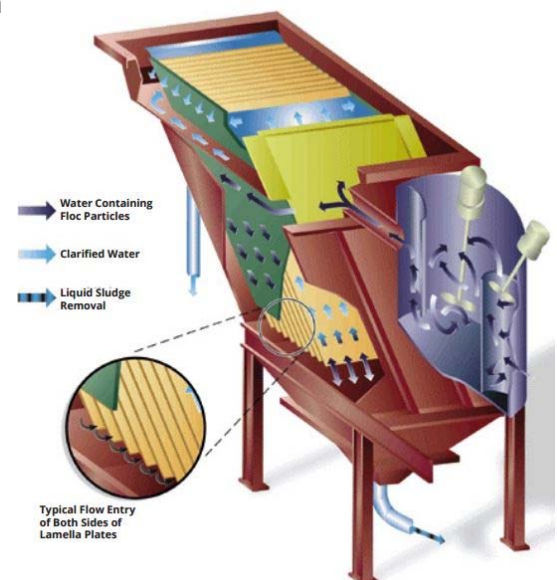
- Structural steel support legs
- Epoxy painted carbon steel tank
- Individually removable FRP plates
- Adjustable effluent weir plates
- Standard units can be manufactured for flows from 5 gpm to 3000 gpm and above in a single above-grade tank
- One-piece prefabricated units are available with up to 1000 sq-ft of effective settling area
- Single tank construction with integral flash mix/flocculation compartments for smaller units
- Multiple sample connections

Optional Design Features

- Flash mix/flocculation tanks with mixers
- Full stainless steel construction
- Concrete tank designs for large flows
- Special coatings and plate materials available
- Integral mechanical sludge thickener
- Access platform and ladder
- Gasketed and removable covers
- Automatic desludging
- Instrumentation and controls
- Chemical feed equipment
- Sludge handling and dewatering

Typical Applications

- Clarification
- Solids Recovery – Coal or other Material Fines
- Cooling Tower Blowdown
- Filter Backwash Recovery
- Municipal Water Tertiary Treatments
- Landfill Leachate
- Brine Treatment



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Principles of Operation

- The settling surface area of each plate is equivalent to its horizontal projection. Stacking the inclined plates results in a separator having up to ten times the settling area of a conventional circular clarifier.
- As the feed stream flows upward between each plate chamber, solids settle downward and continue to slide down the plate surface into a collection hopper.
- There are no moving parts and its compactness allows it to be utilized in new plants or for upgrading existing installations.
- Installation costs are also significantly reduced compared to a standard circular clarifier.

Advantages of the Ecodyne Lamella

- Flow enters from both sides of the lamella plate. This allows the feed flow to be equally proportioned and distributed to all settling surfaces.
- A weir plate with custom-sized orifice holes is used to provide more effective collection and higher effluent quality compared to other designs.
- Individual plates are easily removable, even when the unit is in operation. This design permits a single operator to easily inspect or remove plates.
- The removable plates feature also offers the flexibility needed to handle variations in influent characteristics.
- The lamella also can be mounted on top of a mechanical thickener in order to achieve a higher solids concentration.
- Ecodyne lamellas are furnished as a package unit or built on-site of concrete construction.

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