



LAMELLA CLARIFIER

Compact, high surface area Lamella Plate Clarifier engineered for most applications in wastewater clarification.

OVERVIEW

Enviro Concepts Lamella Clarifier is engineered for high flow rate sedimentation and settling of flocculated wastewater streams.

These units are pre-engineered, pre-assembled and factory tested ensuring reliable operation and minimising site installation and start-up time.

High flow rate sedimentation and settling in a Lamella Clarifier works by having a flocculated liquid/solid stream (e.g. raw wastewater, activated sludge mixed) flow upwards between inclined Lamella Plates. The flocculated solids tumble down to the plate surface by gravity and to a sludge collection hopper. The clarified water overflows through a weir that exits the top of the lamella clarifier.

APPLICATIONS

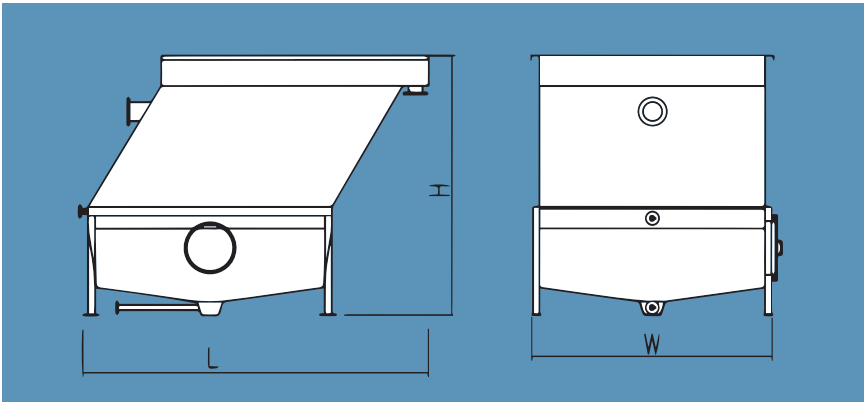
- Wash Bays for Cars and Trucks
- Mine Vehicles and Equipment Wash Downs
- Mechanical and Panel Beating Workshops
- Industrial Wash Processes
- Sea Water Desalination
- Storm and Ground Water Treatment
- Restaurants and Hotels
- Grease Trap Waste Treatment
- Food Industry Wastewater
- Activated Sludge Systems
- Sludge Thickening

FEATURES

- Coated Carbon Steel or Stainless 304 and 316
- Anti-corrosion Treatment
- uPVC Lamella Plates
- Equal Flow Distribution
- Consistent Laminar Flow
- Durable and Compact

SPECIFICATION

Feed Water Source	Municipal and industrial wastewater; activated sludge mixed liquor
Flow Capacity	5 to 80 m ³ /hr
Max. Suspended Solids	4,000 mg/L
Dry Weight	Approx. 1.0 to 4.0 Tonne
Dosing Chemicals	EnviroCoag, EnviroFloc, EnviroBase, EnviroAcid
Suspended Solids Reduction	up to 90% (with coagulation/flocculation)
Lamella Plate Angle	60 degrees
Lamella Plate Thickness	6mm
Lamella Plate Spacing	8~10 cm



MODEL RANGE & TECHNICAL DATA

Model	Capacity	Dimensions (m)			Pipe Connections (DN)(mm)		
	(m ³ /h)	L	W	H	In	Out	Sludge
LST1-005	5	2.6	1.6	2.9	80	50	50
LST1-010	10	3.4	1.8	3	100	80	50
LST1-020	20	3.4	2.2	3.7	150	100	50
LST1-030	30	4.2	2.2	3.7	150	150	50
LST1-050	50	6.3	2.2	3.7	200	200	50x2
LST1-080	80	5	3.4	4	250	200	80