Prime FLUID MANAGEMENT

Sales | Hire | Solution Design | Full Service Operation

EnviroHub Lamella Clarifier Settling Tanks

HL20 | HL50

High-capacity sediment settling in a compact footprint.

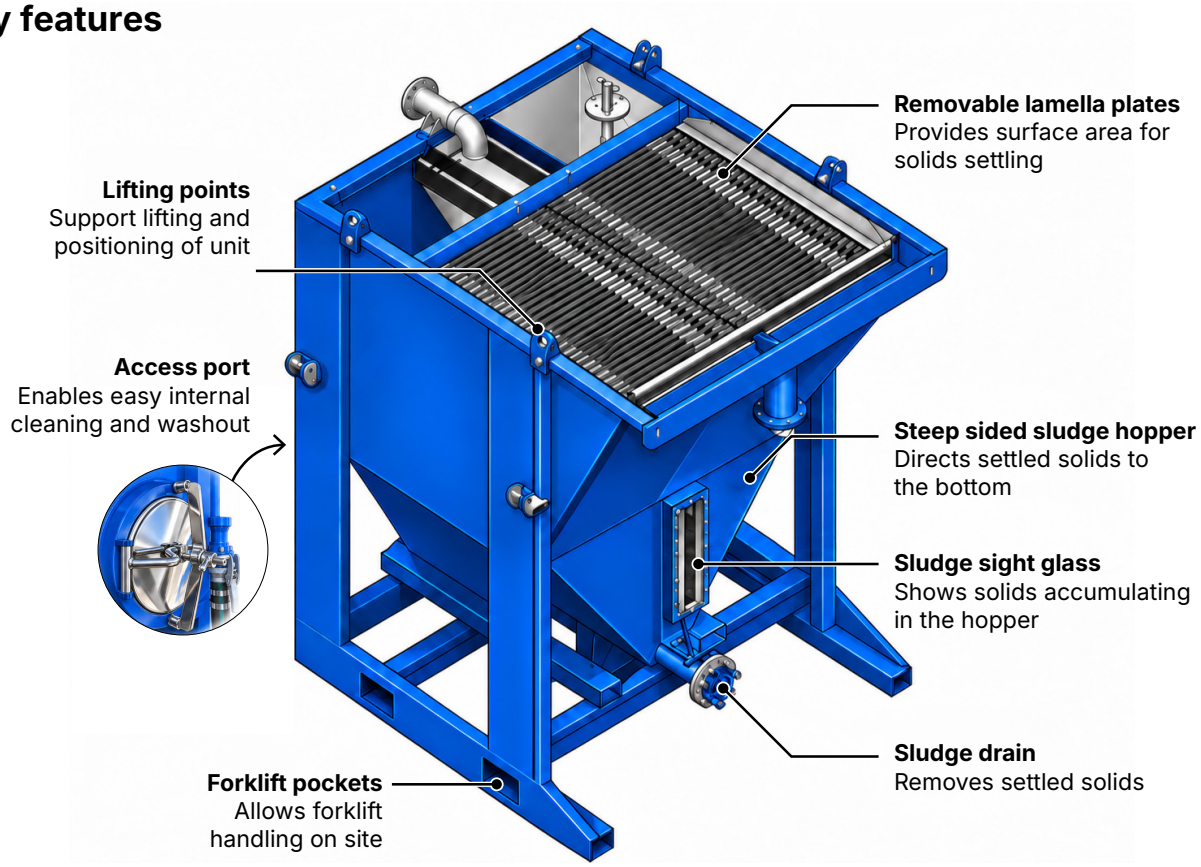
Separate suspended solids from pumped water before discharge or further treatment. Closely spaced inclined plates increase the settling area in EnviroHub lamella clarifiers – allowing suspended solids to settle by gravity without a large tank footprint.



Specification	HL20	HL50
Operating flow range (m^3/hr)	1-20*	1-50*
Lamella settling area (m^2)	20	48.62
Inlet / outlet connection sizes (in)	4 / 6	4 / 6
Overall dimensions: L × W × H (m)	2.1 × 2.3 × 2.3	2.9 × 2.4 × 2.8
Tank footprint (m^2)	4.83	6.96
Dry tank weight (kg)	1,500	2,300

**Operating flow rate depends on incoming water conditions, solids loading and the treatment setup.*

Key features



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Sizes and configurations

Choose a base HL20 or HL50 – or add integrated manual or proportional dosing powered by solar or mains.

Base configuration

- Removable lamella incline plates.
- Inlet chamber, flocculation baffle and mixer.
- Hydrocarbon separation baffle.
- Steep-sided sludge hopper, sight glass and sludge drain.
- Cleaning access port.
- Lifting points and forklift pockets.
- Inlet and outlet fittings and valves.
- Steel tank and frame with primer and protective two-pack paint finish.

Base



Base + solar dosing



Base + mains dosing



All configurations available for HL50 and HL20.

Configuration	Additional equipment and capability	Site requirements
Base tank	Gravity settling without integrated chemical dosing.	Feed pump with its own power source, pipework and sludge removal plan.
Base + solar dosing	Integrated dosing pump and controls, solar panels and two 200Ah deep-cycle batteries to support 24/7 operation under standard NZ conditions. Optional flow meter for proportional dosing.	Base tank requirements – plus suitable solar exposure and space for chemical storage and any required containment.
Base + mains dosing	Dosing pump and controls powered by 230V mains or a generator. Optional flow meter for proportional dosing.	Base tank requirements – plus a mains or generator supply and space for chemical storage and any required containment.

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Dosing options

Chemical dosing helps fine suspended particles form larger clumps that settle more readily.

- **Manual control** – Fixed chemical dosing rate.
- **Proportional control** – Automatic dosing based on flow.
- **Single or dual dosing.**
- **Chemical monitoring and control** – Programmable pumps with app-based remote control.

Integrated dosing equipment fits within the tank footprint. Allow extra space for chemical containers and servicing.

Site considerations

Check the following when planning your installation.

- **Ground support** – A firm, level base suitable for the tank's filled operating weight.
- **Delivery** – Vehicle access, unloading space and suitable lifting equipment.
- **Maintenance** – Sufficient room to inspect and clean the tank, remove the incline plates and empty the sludge hopper.
- **Connections** – Pump and pipework layout, discharge route and sludge drain access.
- **Power and dosing** – Power supply for the feed pump, solar or mains power dosing options, and space for chemical storage.

Sizing and setup

These factors influence model selection, treatment configuration and operating flow rates.

- **Water characteristics** – Sediment type, solids loading, contaminants and dosing requirements.
- **Incoming flow** – Typical and peak flow rates, including variation during operation.
- **Pumping arrangement** – Feed pump selection, intake location and pipework.
- **Discharge criteria** – Target water quality, consent limits and any applicable EMP or CTMP conditions.
- **Site constraints** – Available space, ground conditions, delivery access and room for maintenance.

Project delivery

We can help with:

- **Pumps and pipework** – Selection and setup.
- **Water testing and treatment plans** – Arranging testing and CTMP preparation.
- **Dosing chemicals and storage** – Chemical selection, supply and bunded storage.
- **Hydrocarbon skimmer** – Optional add-on to collect floating oils in the first chamber for removal.
- **Design, installation and full-service delivery** – Custom treatment solutions, including for contaminated groundwater, with pH correction and water quality monitoring as required.



Prime support

Talk to our team for help choosing your settling tank configuration.

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