



# HL50 Lamella Tank

## 50m2 Settling Area Lamella Tank

The HL50 is designed to effectively recover suspended solid particles from water in continuous pumping applications.

HL is a simple but effective way of ensuring that environmental pollution concerns of high suspended solids in water, from activity such as groundwork dewatering and silt laden wash water are safely met. This ensures compliance with authorities such as the Environment Agency and Water board's site water standards requirements.

These tanks are typically used with 4" pumps, though this can vary depending on the appropriate flow rate required. Where there are greater treatment volume requirements, multiple units can be easily connected in parallel to increase settlement capacity.

## How it Works

Silt laden contaminated water is fed into the unit in the back chamber, where it flows around into the base of the lamella plate section of the tank. The water stream flows upward between the inclined Lamella plates.

With the reduced flow, the solids fall to the plate surface, where they slide by gravity, down the plate, to the sludge collection chamber at the bottom. The sludge is then periodically drained down using the valve at the bottom of the hopper.

The HL50 effective settlement area is 50m<sup>2</sup>, giving it a typical treatment flowrate of 25m<sup>3</sup>/H. The HL50 can be used in combination with coagulants and flocculants to remove superfine particles, heavy metals, and more.

## Features

- Discharge ports for sludge and water
- Removable Lamella plates for easy cleaning
- Tapered sludge tank for fast effective sludge removal
- Oil water separation & final polishing point if required
- Provision for additional monitoring control to report on final water quality
- Flocculation area
- Ladder access for maintenance

## Benefits

- Safe solution for removing solids from water and minimising environmental damage to water courses
- Ensure compliance with Authority requirements
- Good practice for HSE requirements onsite
- Provides water suitable for safe discharge to foul or surface and inert sludge
- Easy and fast to deploy; minimal set up required
- Suitable for all suspended solids settlement
- Unlimited process time without complete washout
- Flocculant cages built into inlet for basic water treatment
- Easy transportation using either built in ground level lifting points or fork pockets

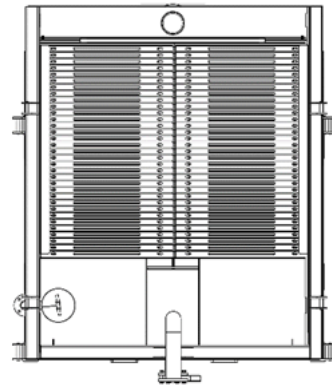
## Specification

Value	HL50	Unit
Mass (Empty)	3750	kg
Mass (Full)	10750	kg
Length	2.9	m
Width	2.4	m
Height	2.8	m
Settling Flow Rate Limit	50	m <sup>3</sup> /h
Total Volume	7	m <sup>3</sup>
Sludge Volume	1.3	m <sup>3</sup>
Effective Settlement Area	48.62	m <sup>2</sup>
Max Ground Slope Rise Widthways	30	mm
Max Ground Slope Rise Lengthways	80	mm
Max Ground Slope Widthways	0.8	deg
Max Ground Slope Lengthways	1.7	deg
Inlet Flange	DN100 PN10	-
Outlet Flange	DN150 PN16	-
Oil Skimmer Outlet	2" BSPT F Socket	-

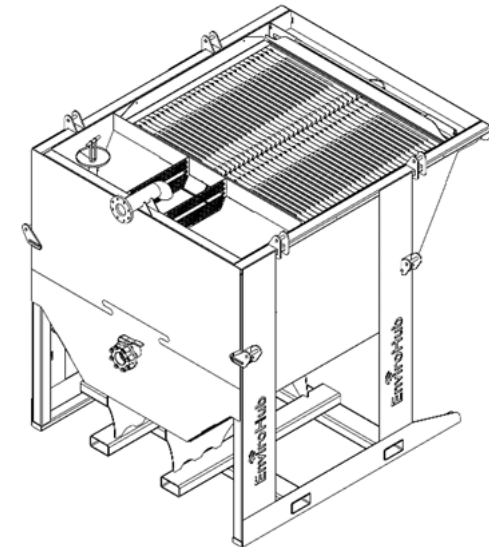
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Layout Drawings

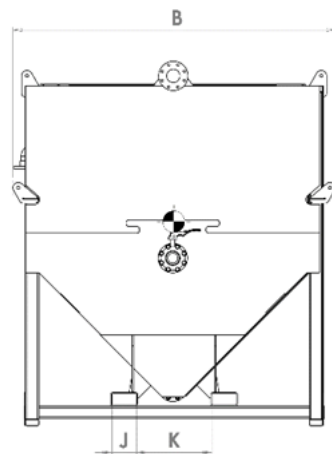
Dimension	HLS0	Unit
A	2829	mm
B	2400	mm
C	2734	mm
D	2624	mm
E	2060	mm
F	2687	mm
G	287	mm
H	1258	mm
I	800	mm
J	184	mm
K	566	mm
L	1124	mm
M	1528	mm



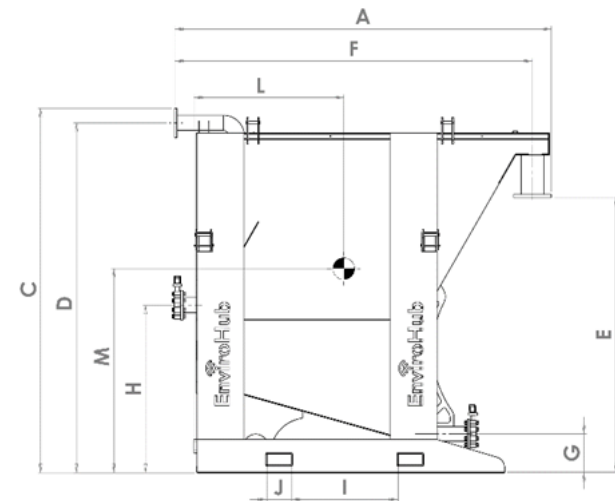
TOP



ISOMETRIC



FRONT



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