DATA SHEET

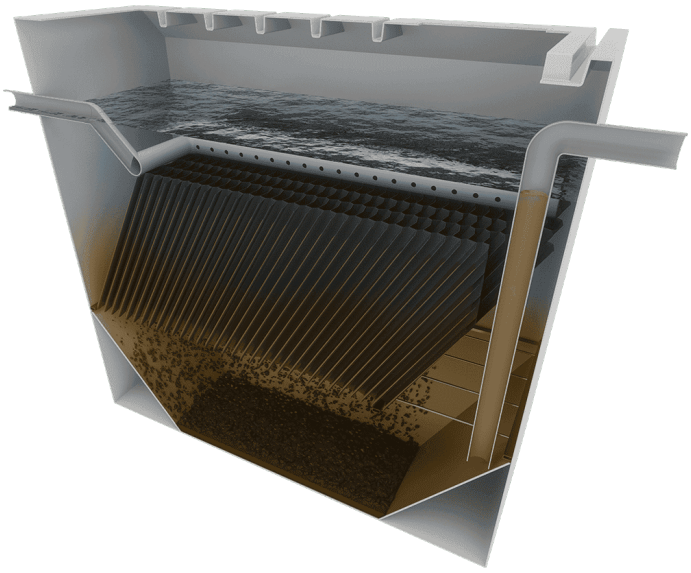
Lamella Clarifier 13000

ClearFox® be clever

clearfox.com

Advantages of the ClearFox® Lamella Clarifier 13000

- Efficient suspended solids removal
- Non-pressurized, energy-efficient system
- Optimized effluent quality through lamella technology
- Flexible installation
- Robust, durable design



Description:

The ClearFox® clarifier removes the turbid matter such as solids and sludge from an upstream biological or chemical treatment. It is a pressureless system. The untreated water is pumped or flows by gravity into the inlet of the clarifier, where it is directed downwards through internal pipes. Below the lamellas, the water flow is reversed and flows upwards through the lamellas. In the meantime, the solids settle on the lamellas in the counterflow. The clarified water continues to flow upwards and over a special overflow weir through the outlet pipe. The solids slide down along the lamellas and accumulate in the sludge funnel/pump sump. Depending on the subsequent process steps, the sludge is discharged continuously or discontinuously near the bottom. The clear water outlet is designed as a serrated barrier or as an underwater pipe collector along the length of the clarifier body in order to maintain a laminar flow.

The louvres consist of a plastic inlet (seamless rotated polyethylene) which, depending on the project design, can be pre-installed in an ISO container or by the customer directly on site in a suitable concrete chamber.

The containers are reinforced with steel frames in accordance with the static requirements and are approved by type static calculation. The inlet consists of a seamless PE sump.

PPU Umwelttechnik GmbH T +49 (0) 921 1511 020-0 info@clearfox.com

PPU water systems

ClearFox
be clever

Technical Data:

½ Clarifier module			
Space requirement:	33% of the HC container	max. Operating weight: [kg]	8.000 (water filled)
Measurements: (l, b, h) / ½ module [m]	1,35 x 2,10 x 2,57	Inflow: DN @ height:	DN 100 @2.40 m
Area: [m²]	2,80	Outflow: DN @ height:	DN 100 @2,40 m
max. transport weight: [kg]	400 empty		
1 Clarifier module			
Space requirement:	50% of a HC container	max. Operating weight: [kg]	15.000 (water filled)
Measurements: (l, b, h) / module [m]	2.74 x 2.10 x 2.57	Inflow: DN @ height:	DN 100 @2.40 m
Area: [m²]	5,75	Outflow: DN @ height:	DN 100 @2,40 m
max. transport weight: [kg]	650 empty		
½ and 1 clarifier module			
Sludge outlet:	DN 50 Internal thread for pump connection	Manhole opening:	60 cm x 60 cm
Lamella material:	PPTV	Separation area:	8 – 13 m²

(*) Refers to the number of PE clarifier modules	Max. Flow rate Inserts			Separation area [m²]
	½ (*)	1 (*)	2 (*)	
Clarifier downstream of a highly loaded biological fixed bed process, floccu-lated	9 m³/hr			
	water	18 m³/hr		35 m²
			36 m³/hr	70 m²
Clarifier behind a bio-logical fixed bed process, aquaculture, rainwater	10 m³/hr			
		25 m³/hr		50 m²
			50 m³/hr	100 m²

PPU Umwelttechnik GmbH
Carl-Kolb-Str. 6
95448 Bayreuth
Germany
clearfox.com

PPU
water systems