

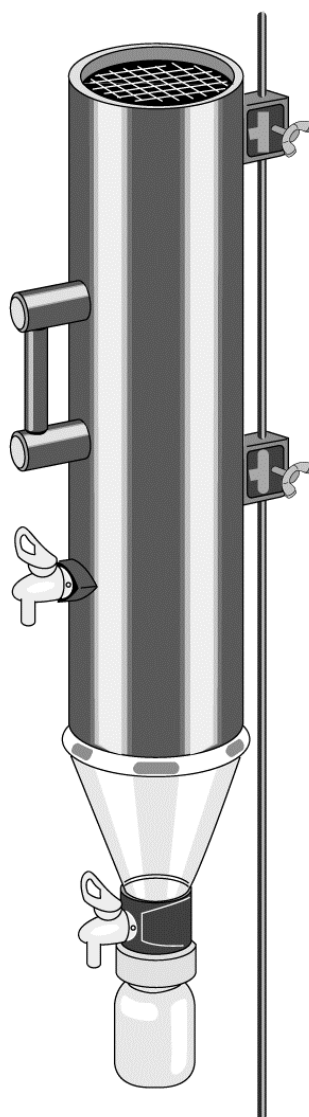
Am Jägersberg 5-7  
24161 Altenholz  
Germany

phone: + 49 - 4 31 - 3 69 60 - 0  
fax: + 49 - 4 31 - 3 69 60 21  
mail: sales@hydrobios.de  
web: www.hydrobios.de



**Apparatebau GmbH**

## **Operating Instruction for Sediment Trap acc. to Saarso Catalogue No. 444 000**



## Technical Data

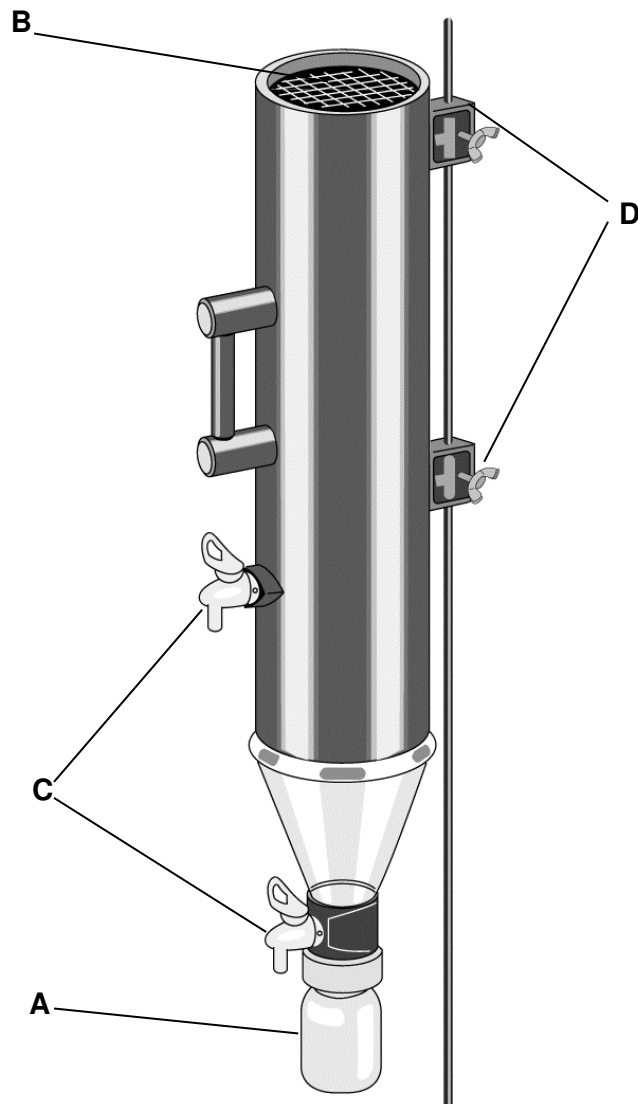
Collecting area:	0.015 m <sup>2</sup>
Length of collecting tube:	560 mm
Angle of funnel:	40 deg.
Ratio between diameter and collecting tube length:	1 : 4
Grid dimension:	20 x 20 x 40 mm
Material:	
Trap and funnel	PVC
Collecting bottle 250 ml	polyethylene
Mooring line diameter:	up to 6 mm

## General Description

The SEDIMENT TRAP has been designed for autonomous operation in lakes, continental shelf and aquatic environments with relative high vertical particulate flux value.

The instrument does not need heavy moorings and can be easily deployed and recovered from smaller vessels. Two wide clamps simplify the use of it in vertical series attached to the same mooring line.

Each SEDIMENT TRAP is equipped with a dismountable baffle grid at the opening to avoid washing out of the sediment from the upper part of the cylinder. The inside is completely metal-free. The water above the collecting bottle can be let off via two drain cocks. The transparent funnel bottom enables to check for resuspension of sediment from the collecting bottle after recovery



## Operation

- 1.) Screw off the cap from the sampling bottle 250 ml.
- 2.) Screw the sampling bottle (A) into the lower end of the funnel. Fasten the sampling bottle fingertightly.
- 3.) Verify that the baffle grid (B) is mounted in the opening of the trap to avoid washing out of the sediment from the upper part of the cylinder.
- 4.) Make sure that both drain cocks (C) are closed.
- 5.) Fasten the SEDIMENT TRAP to the mooring line (up to 6 mm dia.) by using the two clamps (D). The mooring line should be equipped with a bottom weight of about 5 kg.
- 6.) Lower the SEDIMENT TRAP into the water.
- 7.) After the desired duration of sampling the SEDIMENT TRAP has to be taken out of the water.
- 8.) The water above the sampling bottle has to be let off via the two drain cocks (C). If desired, the column of water can be divided in two samples and may be collected for later examination.
- 9.) Unscrew the sampling bottle and screw on the cap.
- 10.) Remove the SEDIMENT TRAP from the mooring line by loosening the two clamps (D).
- 11.) Clean the SEDIMENT TRAP with freshwater to avoid falsification of later samples. For that purpose the baffle grid (B) can be dismounted by pulling it out of the opening of the cylinder.