

## Multi Sediment Trap

Cylindrical Sedimentation Vessel with Collecting Bottle Revolver

### ABOUT

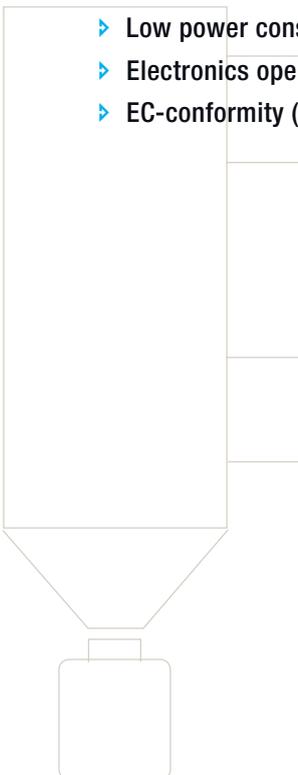
The rugged titanium array of the Multi Sediment Trap encapsulates the singular standard Sediment Trap (444 000) together with a motor-driven rotary table that can accommodate 6, 12 or 24 plastic collecting bottles.

The instrument has been designed as a light and handy instrument for autonomous operations in lakes, continental shelf and aquatic environments with relative high vertical particulate flux value. It has proven its reliability during numerous long-time operations in arctic, antarctic, tropic and sub-tropic environments. The instrument does not need heavy moorings and can be easily deployed and recovered from smaller vessels.

The cylindrical trap is equipped with a dismountable baffle grid at the opening to reduce turbulences, avoiding wash out of the sediment from the upper part of the cylinder. The inside of the trap is completely metal-free.

### FEATURES

- Titanium array
- Compact size and low weight
- Standard depth range 3000 m
- Low power consumption
- Electronics operate from -40°C up to +85°C
- EC-conformity (CE) EN 50081-1, EN 50082-1



The tubular design of our Sediment Trap provides a relatively small sampling area but cares for reliable sedimentation of suspended matters even under turbulent environmental conditions. It avoids the risk of re-suspension of the sample as it can regularly be detected inside large-area conical sediment traps. The collecting bottles of the Multi Sediment Trap are isolated from the surrounding environment when inactive. During deployment and recovery operations the trap bottom is open allowing a free flow through the body.

Power supply is made by 3 long-time lithium batteries, placed inside an external battery housing.

The operation schedule is programmed via PC by using OceanLab 3 software. Preselect active periods for the collecting bottles from 1 minute up to 8760 hours in real time (year, month, day, hour, minute) or as individual time intervals (hours and minutes).



## TECHNICAL DATA

<b>Material</b>	PVC, PE, PTFE, Titanium			
<b>Operational depth</b>	Standard 3000 m, optional 6000 m			
<b>Number of samples</b>	Dimensions	Height	Weight on air	Weight in water
<b>6 bottles</b>	320 mm dia.	1200 mm	12 kg	5 kg
<b>12 bottles</b>	520 mm dia.	1040 mm	25 kg	10 kg
<b>24 bottles</b>	800 x 800 mm	1000 mm	45 kg	20 kg

## ORDERING INFORMATION

<b>Products</b>	
<b>444 101</b>	<b>Multi Sediment Trap</b> , 6 bottle version
<b>444 121</b>	<b>Multi Sediment Trap</b> , 12 bottle version
<b>444 141</b>	<b>Multi Sediment Trap</b> , 24 bottle version
<b>Spare Parts</b>	
<b>444 150</b>	<b>Spare Collecting Bottles</b> 250 ml with screw cap (1 set of 24 pcs.)
<b>444 160</b>	<b>Spare Lithium Batteries</b> (1 set = 3 pcs.)