OSIL
Environmental Instruments and Systems

MICROPLASTICS SAMPLER

OSIL'S Microplastics Sampler is a device for collecting samples for analysis of marine particulate plastics

The Microplastics Sampler is a large volume water bottle that can be deployed to collect marine plastic particles with ease.

The principle of this device relies on the rapidity with which dense plastic particles sink when enclosed in still water. 50 litres of water are collected in a messenger-operated PVC water bottle. Water transport through the device during descent is controlled through two large diameter terminal apertures constructed to reduce turbulence.

Benefits:

- Robust construction
- Modular design makes it easy to replace damaged parts
- Simple structure to work on/with

After recovery, the device remains upright on deck for two hours to allow dense particles to sink to the bottom. The top 5 litres can be drawn off to be sampled for positively buoyant plastics, with the next 40 litres slowly drained through a tap. The bottom section of the water bottle, containing the remaining 5 litres of water and the dense plastic particles is then disconnected. This lower section can then be taken into the laboratory where the particles can be photographed and removed from the flat bottom of the chamber with a wide-bore pipette for further analysis. The bottom chamber has transparent sides though which the particles can be observed sinking.

FOR FURTHER INFORMATION PLEASE CONTACT:

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Features:

- Large Volume
- Minimal Turbulence
- Controlled Separation

Specifications:

- Dimension: 1.5m x 30cm Ø
- Weight (in air): 55kg
- Sample Volume: 50 litres

(100L & 300L versions available)

Applications:

- Microplastics Studies
- Carbon Flux Studies
- Food Chain
- Marine Snow Analysis

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