Automated Filtration for Marine Microbes (AUTOFIM_10001.125)

Attention:

Please note that the Automated Filtration for Marine Microbes (AUTOFIM_10001.125) requires experienced scientific staff on board. The system is not operated by the ship's crew. Announce operations with the Automated Filtration for Marine Microbes (AUTOFIM_10001.125) to AWI-Logistics prior to the cruise and clarify the data transfer after the cruise.

Summary

Automated and remote-controlled filtration system for marine microbes (AutoFiM) allows high resolution collection and filtration of marine or freshwater samples at defined time intervals or at defined stations for further molecular analysis of e.g. microalgae. Up to 5 Liters could be sampled and filtrated. In total 12 filters could be stored for about one week in e.g. lysis buffer until the sample plate has to be replaced. Device has its own water supply taking sea water from roll channel at ca. 5m depth.

Manufacturer	iSiTEC
Model	
Serial No.	10001.125
Type	small scale facility
REGISTRY-Link	REGISTRY (1232)

AutoFiM installation

Contacts

Name	Institution	Role
Katja Metfies	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Engineer In Charge, Data Scientist
Alfred Wegener Institute for Polar and Marine Research	Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research	Owner

Components

Position

Info	no xyz-position given, device located in transverse thruster room
X	0.0 (no unit given) (no description given)

Y	0.0 (no unit given) (no description given)
Z	0.0 (no unit given) (no description given)

Data logging, storage and archiving

Central geographical ship's position and time standard

Rawdata storage on board

Documentation

- AUTOFIM User Instruction (Factsheet, 79 kB)