



HYDRO-BIOS

Smart Sampling

Datasheet Free Flow 5 l (436 344)



Free Flow Water Sampler 5 l

Free-flushing oceanographic water sampler

The Free Flow Water Sampler is an innovative design which avoids the limitations of the PWS/Niskin bottles caused by their reduced inlet and outlet diameters. The outstanding feature of the Free Flow Water Sampler is the really free-flushing construction of the sampler where no cone or ball-valve influences the water exchange inside the sampling tube.

The Free Flow Water Sampler features all plastic (PVC and POM) design, consisting of a tube with two lids connected by a latex rubber tubing. The lids are kept open during descent, caring for a perfect flushing of the sampling tube. Like the PWS, the Free Flow Water Sampler on the one hand can be used on Multi Water Sampler/ Rosette/Carousel arrays and on the other hand it can be used as single or series instrument connected to a hydrographic wire. When used directly connected to a hydrographic wire, a messenger (not incl.), dropped down the wire from the surface, releases the end stoppers for closure. For the use of several Free Flow Water Samplers in a row a second messenger below the first sampler is used to actuate a series of samplers along the wire.

When operated as a single instrument without bottom weight, we recommend to use a Centered Mounting Rack (436 385) which cares for a vertical position of the sampler. Retrieve the water sample via the discharge cock/tube at the lower end of the sampler.



TECHNICAL DETAILS

| | |
|--------------------------------|--------------|
| length | 700 mm (C) |
| width | 190 mm (A) |
| height | 210 mm (B) |
| diameter | 140 mm (D) |
| sample volume | 5 l |
| weight on air | 6 kg (empty) |
| operational temperature | -2 to +60 °C |
| product ID | 436 344 |

CHARACTERISTICS

- **free-flushing construction**
- **innovative design**
- **also available for SEABIRD Rosette**