



Product Line Description: The AcSample is a simultaneous triplicate submersible eDNA sampler for in situ and lab use, designed for low cost and ease of use. All AcSample units include a box with 3 inlets and 3 outlets, each inlet connected to a high flow peristaltic pump with flow meter. Inlet and outlet luer lock connections provide filter connection points. Control electronics provide timed, depth-based, and volume-based triplicate sampling modes.

Property	AcSample-5m: PN 101518	AcSample-M: Coming Soon
Depth Range	0 - 5 meters	0 - 50 meters
Mechanical	Air-filled box containing pumps, sensors, battery, and electronics.	Oil-filled box with pumps, sensors; waterproof housing for electronics
Pumps	(3x) Peristaltic, 24 V, 500 mL/minute with open inlet.	
Flow sensors	(3x) Hall effect flow sensors per pump, 5% accuracy.	
Mode Options	1) Depth Triggered/Time Triggered Autonomous 2) Matched Volume Autonomous 3) Duty Cycled Autonomous 4) Serial Controlled or Continuous ON.	
Sensor Logging	RTC Time, Total flow in mL/minute (per pump), Current draw in mA (per pump), External pressure/temperature	
Battery	24 Wh Internal NiMH: 90 minutes continuous sampling (18x 5-minute sample cycles)	
Data Offload	Shore cable console (recommended) or SD card.	
Charging	Via shore cable.	
Filter attachment	Luer lock (inlet or outlet). Filter-agnostic, see flow rates table below.	

Flow Rates: Flow rate examples shown below. The AcSample is filter-agnostic, but filter choice impacts flow rate: always test new filter types in the lab. Inlet sampling is recommended if possible, as tube sterilization is required between sampling operations during outlet sampling. Always start with clean, dry filters for good performance and to prevent damage to AcSample.

Filter Housing	Filter	Recommend	Inlet Flow	Outlet Flow
Smith-root	47 mm, Glass Fiber	Inlet	500 mL/min	-
	47 mm, MCE 1 um	Inlet	320 mL/min	-
Cobetter Filter Holder	47 mm, MCE 1 um	Inlet	260 mL/min	360 mL/min
Sterivex GP 0.22 um syringe filter		Inlet/Outlet	120 mL/min	260 mL/min
33 mm diameter PES, 0.45 um syringe filter		Inlet/Outlet	160 mL/min	260 mL/min
Wilderlabs CA 1.2 um syringe filter		Outlet	-	350 mL/min