

- Number of samples: 21 with 250 ml or 500 ml bottles or 13 (wider bottle) with 500 ml bottles.
- Power: 14 commercially available, user replaceable "C" cell alkaline batteries.
- Depth-rated to 7,000 m (10,000 m option available).
- Titanium frame reduces weight and resists corrosion.
- For more information about this sampler, see the <u>Sediment Traps</u> pages at mclanelabs.com.

Parflux 78H Sediment Trap

Application:

The Parflux 78H time-series Sediment Trap collects the flux of settling particles in a wide, hexagonal topped collection individual sealed funnel and stores samples in bottles. Samples from oceans and lakes support biogeochemical studies investigations. including paleoproxy radionucleide or carbon studies, environmental pollution monitoring. cycle and or

Samples are pre-programmed or triggered adaptively from another computer or on-shore device. Pre-programmed samples can each have a different start date/time, collection at fixed time intervals from a start date, or be automatically spaced at equal intervals between a start and end date. Sample data includes collection date/time, battery voltage and temperature before and after each sample event.

Features:

A 13 cup and a 21 cup version are available. The 21 cup model holds 250ml or 500ml sample bottles. The 13 cup model holds 500ml sample bottles. Optional Wet Sample Particle Divider (WSD-10) splits wet specimens into five or ten equal parts. Designed for in-line mooring applications, bridles optional.

Options:

Options include commands for adaptive, external control of sampling, external temperature and depth sensors, and external power connection.

McLanePro:

Sediment Traps use McLanePro, a graphical user interface built for McLane's Gen3 electronics. McLanePro eases the steps of event programming, data offload, and firmware updates.

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McLa	inePro	Port C	OM4 Ref	resh	Conn	ected	Disconne	ct						
Device Parflux Sediment Trap - [PST]					Serial# 99999-99				Firmware 1.5 - [Release]					
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		Feb/26/2022 -	10-14-17	#	Event 07	Tim	e Mar/13/	2022 - 10-14-1		-	Event 12	Time	Mar/28/2022 - 10:14:17	6
Event 02	lime	100/20/2022						2022 - 10.14.1						
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	Time		- 10:14:17			Tim				-	Event 13 Event 14		Mar/31/2022 - 10:14:17 Apr/03/2022 - 10:14:17	

78H Sediment Trap Specifications

DIMENSIONS:		91 cm (35.8 in) 164 cm (64.5 in)			
WEIGHT APPROX (NO BRIDLE):	In air, 500 ml bottles full: In water, 500 ml bottles full:	5 ()			
SAMPLE COLLECTION:	Number of samples:	21 or 13 (wider bottle)			
		250 or 500 ml (21 samples) 500 ml (13 samples, wider bottles)			
	Aperture area and diameter:	0.5 m², 80 cm			
	Baffle material:	Polycarbonate, 1.0 mm wall thickness			
	Cone material:	Natural polyethylene internal coating			
	Baffle cells:	Approx. 368, 2.5 cm diameter			
	Aspect ratio of cell (h/d):	2:5			
	Included cone angle:	41°			
ROTARY ASSEMBLY:	Drive motor type:	Electronic stepper motor			
	Drive train:	Direct gear train			
CONTROLLER:	Pressure housing:	Titanium, 316 SS fasteners			
	Communications:	Serial (RS-232), Ethernet (optional)			
OPERATIONS:	•	7,000 m (10,000 m model is available) 14 user replaceable "C" cell alkaline batteries			
	Maximum deployment time:	18 months			
	Operating temperature:	-4°C to 35°C (in water nonfreezing)			
	Storage temperature:	-20° to 45° C (in air)			
FRAME:		-20° to 45°C (in air) Titanium, Grade 2			
FRAME:	Material:				