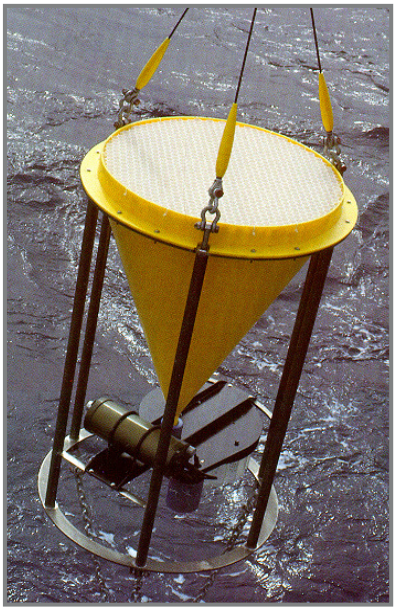
Parflux 78H Sediment Trap



- 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).
- Options include external temperature and depth sensors, and external power connection.
- Optional wet sample particle divider (WSD-10) splits wet specimens into five or ten equal parts.
- Designed for in-line mooring applications, with optional bridles available.
- Titanium frame reduces weight and resists corrosion.
- For more information about this sampler, see the Sediment Traps pages at mclanelabs.com.

Application:

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

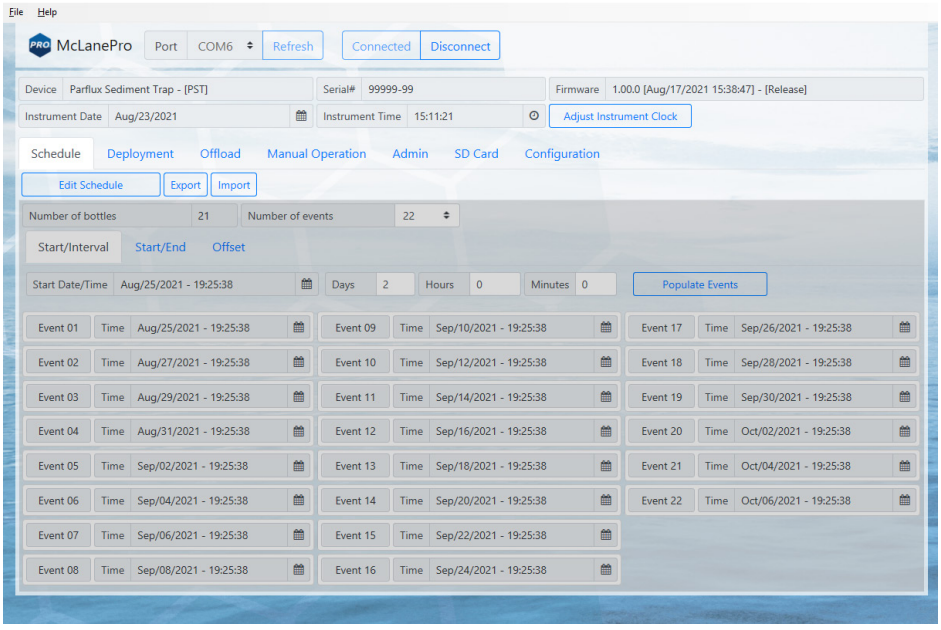
Samples are pre-programmed or triggered adaptively from another computer or on-shore device. Collection date/time, battery voltage and temperature before and after each sample event are logged. The sampling schedule is set by individual start dates/times, fixed time intervals from a start date, or equal intervals between a start and end date.

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.

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.



78H Sediment Trap Specifications

DIMENSIONS:	Diameter:	91 cm (35.8 in)
	Height:	164 cm (64.5 in)
WEIGHT APPROX (NO BRIDLE):	In air, 500 ml bottles full:	72 kg (159 lbs)
	In water, 500 ml bottles full:	25 kg (55 lb)
SAMPLE COLLECTION:	Number of samples:	21 or 13 (wider bottle)
	Bottle volume:	250 or 500 ml (21 samples) 500 ml (13 samples, wider bottles)
	Aperture area and diameter:	0.5 m^2, 80 cm
	Baffle material:	Titanium, Grade 2, 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:	USB, RS-232, RS-485 with optional added bulkhead connector
OPERATIONS:	Maximum depth:	7,000 m (10,000 m model is available)
	Battery:	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, batteries removed)
FRAME:	Material:	Titanium, Grade 2
	Bridle eyes:	16 mm (5/8”), insulated
	Fasteners:	316 SS isolated