



Number of samples: 13 with 250 ml (500 ml bottle frame available).

- Performs well in both low and high flux environments.
- 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 8-13 Sediment Trap

Application:

The 8-13 Sediment Trap is a time-series instrument that autonomously collects the flux of settling particles on an schedule. The funnel operator-defined wide top collects particulate specimens into separate sample bottles. Ocean and lake samples support ongoing global carbon cycle studies, paleoproxy and radionucleide investigations and environmental or pollution monitoring. At half the size of the traditional PARFLUX 78H Sediment Trap, the 8-13 is easy to deploy and performs well in both low and high flux environments.

Features:

Optional Wet Sample Particle Divider (WSD-10) splits wet specimens into five or ten equal parts. The 8-13 is 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.

McLa	inePro	Port COM4 ¢ R	tresh	Conne	ected	Disconnect							
vice Parfl	ux Sedim	ent Trap - [PST]		Serial# 99	9999-99			Firmware	1.5 -	Release]			
strument Date Mar/08/2022			6	Instrument Time		:31:53	0	Adjust I	nstrum	ent Clock		Connection USE	3
chedule Edit Sc	Deplo hedule	oyment Offload M Export Import	/lanual C	peration	Admir	n SD Card	Con	figuration					
umber of b	ottles	13 Num	ber of eve	ents	14	\$							
Start/Inter	rval	Start/End Offset											
tart Date/T	ime		#	Days	0	Hours 0	Mir	nutes 0					
			-	Event 06	Time	Mar/10/2022				Event 11	Time	Mar/25/2022 - 10:14:17	6
Event 01	Time	Feb/26/2022 - 10:13:50		Event oo			- 10:14:17			LTCHL II			0.00
Event 01 Event 02	Time Time	Feb/26/2022 - 10:13:50 Feb/26/2022 - 10:14:17		Event 07	Time	Mar/13/2022	- 10:14:17			Event 12	Time	Mar/28/2022 - 10:14:17	m
Event 01 Event 02 Event 03	Time Time Time	Feb/26/2022 - 10:13:50 Feb/26/2022 - 10:14:17 Mar/01/2022 - 10:14:17		Event 07 Event 08	Time	Mar/13/2022 Mar/16/2022	- 10:14:17 - 10:14:17 - 10:14:17			Event 12 Event 13	Time	Mar/28/2022 - 10:14:17 Mar/31/2022 - 10:14:17	1
Event 01 Event 02 Event 03 Event 04	Time Time Time Time	Feb/26/2022 - 10:13:50 Feb/26/2022 - 10:14:17 Mar/01/2022 - 10:14:17 Mar/04/2022 - 10:14:17		Event 03 Event 07 Event 08 Event 09	Time	Mar/13/2022 Mar/16/2022 Mar/19/2022	- 10:14:17 - 10:14:17 - 10:14:17 - 10:14:17			Event 12 Event 13 Event 14	Time Time Time	Mar/28/2022 - 10:14:17 Mar/31/2022 - 10:14:17 Apr/03/2022 - 10:14:17	

8-13 Sediment Trap Specifications

DIMENSIONS:	Diameter: Height:	66 cm (26 in) 116 cm (45.5 in)
WEIGHT APPROX (NO BRIDLE):	In air, 500 ml bottles full: In water, 500 ml bottles full:	42 kg (93 lbs) 21 kg (47 lbs)
COLLECTOR:	Number of samples: Bottle volume:	13 250 (500 ml option) 500 ml (13 samples, wider bottles)
	Aperture area and diameter:	0.25 m ² , 56.5 cm (22.2 in)
	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:	Maximum depth: Battery:	7,000 m (10,000 m option is available) 14 user replaceable "C" cell alkaline batteries
	Maximum deployment time:	18 months
	Operating temperature:	-4°C to 35°C (in water non-freezing)
	Storage temperature:	-20°C to 45°C (in air)
FRAME:	Material:	Titanium, Grade 2
	Bridle eyes:	16 mm (5/8"), insulated
	Fasteners:	316 SS isolated