

Suspended Particulate Rosette Sampler

Application:

The Suspended Particulate Rosette Sampler (SuPR), is a time-series in-situ sampler that autonomously collects 14 individual, high volume particulate samples onto 142 mm membrane filters. Collection targets include eDNA, chlorophyll maximum, particulate trace metals, and phytoplankton.

Sample collection is regulated by operator-programmed selections that include total volume, flow rate and sample collection time.

- ▼ Number of samples: 14.
- ▼ Battery: Two (2) 30 Ah high capacity battery packs.
- ▼ High volume sample collection.
- ▼ In situ sample stabilization.
- ▼ Deploy as an in-line package on an anchored mooring, ocean floor bottom lander or lowered from a ship.
- ▼ For more information about this sampler see the [SuPR](#) pages at mclanelabs.com.

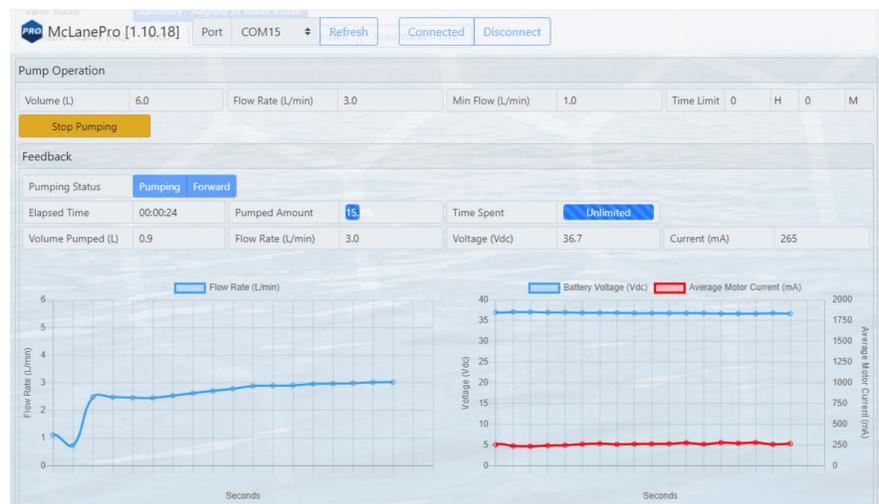
Features:

The SuPR can pump 1000-2000 liters per sample. Water is pulled through a single intake and onto the specified filter via the downstream large volume pump. As material accumulates on the sample filter, the flow rate automatically adjusts. This adjustment equalizes pressure so that the filter and sample are not damaged.

Samples may be stabilized in situ following collection. 9.5 liters of liquid stabilizer are stored on board. A digital flow meter records accurate flow rate and total sample volume.

McLanePro:

SuPR operations and programming use McLanePro, a graphical user interface common to McLane samplers. McLanePro eases the steps of event programming, data offload, and firmware updates.



SuPR Sampler Specifications

DIMENSIONS:	Height: 86.4 cm (34.01 in)
	Width: 72.7 cm (28.62 in)
	Depth: 52.4 cm (20.62 in)
WEIGHT (APPROX):	In air: approximately 181 kg
	In water: approximately 68 kg
COLLECTOR:	Number of samples: 14
	Filter holder material: High density polyethylene, acrylic, polypropylene
CONTROLLER:	Housing material: Aluminum, 6061-T6 hard coat anodized
OPERATIONS:	Maximum depth: 5,000 m
	Battery: Two A72-1000 36 VDC battery packs
	Operating temperature: 0°C to 35°C (non-freezing)
BULKHEAD CONNECTORS	Subconn MCBH6F
COMMUNICATIONS	USB or RS232
FILTER TYPE	142 mm, 0.22 µm or larger membrane filters
FLOWRATE*	2000 - 6000 mL/min
SAMPLE PRESERVATION:	9.5 Liter preservative reservoir
FRAME:	Material: Type 316 electro polished stainless steel weldment
GRAPHICAL USER INTERFACE:	McLanePro: Custom McLane GUI eases event programming, data offload, and firmware updates.

**Flowrates dependent on filter sizes. User result may vary.*