

- Number of samples: Single event sampler with dual filter holders.
- 30 Ahr high capacity battery pack.

## **Deployment:**

- Specially designed cable clamps facilitate fast and easy attachment to an oceanographic wire for deployment.
- Non-volatile memory stores critical deployment data.

## Options:

- Deep model available with 7,000 m rated housing.
- Filter holders can include multiple tiers (for filter holder option details see <u>WTS-LV Filter Holder</u> <u>Specifications chart</u>).
- For more information about this sampler, see the <u>WTS-LV</u> pages at mclanelabs.com.

# WTS-LV - Dual Filter Model

## **Application:**

The Dual Filter Large Volume Water Transfer System (WTS-LVDF) is a large volume, high capacity single-event sampler that performs parallel filtration to collect suspended and dissolved particulate samples *in situ*. Ambient water is drawn onto dual, 142 mm membrane filters without passing through the pump. Standard 2-tier vertical intake filter holders provide prefiltering and size fractioning. Other filter holder options are available. Collection targets include chlorophyll maximum, particulate trace metals, phytoplankton and other suspended particulates.

#### Features:

Different flow rates and filter porosity support a range of specimen collection (pump head must be compatible with filter material, see WTS-LV Filter Types and Recommended Pump Heads chart).

Vertical intake filter holders (as used in GEOTRACES studies).

Flow is regulated by user-defined values for total volume, flow rate, and sample collection time.

Dynamic pump speed algorithm adjusts to protect the sample as material accumulates on the filter. Independent mechanical flow meters record total volume pumped per deployment and total volume pumped through each filter holder.

Sampling be programmed scheduled can to start at **Triggered** time or begin with a countdown delay. countdown samplers. synchronizes multiple start

### **Pump options:**

LV08 'Flow rate 1-8 liters/min Max volume 15.000 liters

Filter type GF/F®, QMA® or other membrane or mesh filters

<sup>\*</sup>Based on filtering clean water. Field results will vary depending on filter type and particulate load.

## **WTS-LV Dual Filter Sampler Specifications**

DIMENSIONS (DUAL FILTER MODEL): Length: 79 cm ( 31.25 in)

Width: 38 cm (15 in)

Height: 74.9 cm (29.5 in)

w/debubbler 90.1 cm (35.5 in)

WEIGHT (APPROX): In air: approx. 78 kg

In water: approx. 43 kg

COLLECTOR: Number of samples: Single event sampler/dual filter holder

Filter holder material: 142mm diameter, HDPE/Acrylic

CONTROLLER: Housing material: Aluminum, 6061-T6 hard coat anodized

Power: 30 Ah high capacity battery pack

Communications: USB, RS-232, RS-485 with optional added

bulkhead connector

**OPERATIONS:** Maximum depth: 5,000 m (7,000 m model is available)

Battery: 30 Ahr battery pack

Operating temperature: -4°C to 35°C

FRAME: Material: Strong back with wire clamps / Type 316

electro polished stainless steel weldment

GRAPHICAL USER INTERFACE: McLanePro: Custom McLane GUI eases event

programming, data offload, and firmware

updates.

