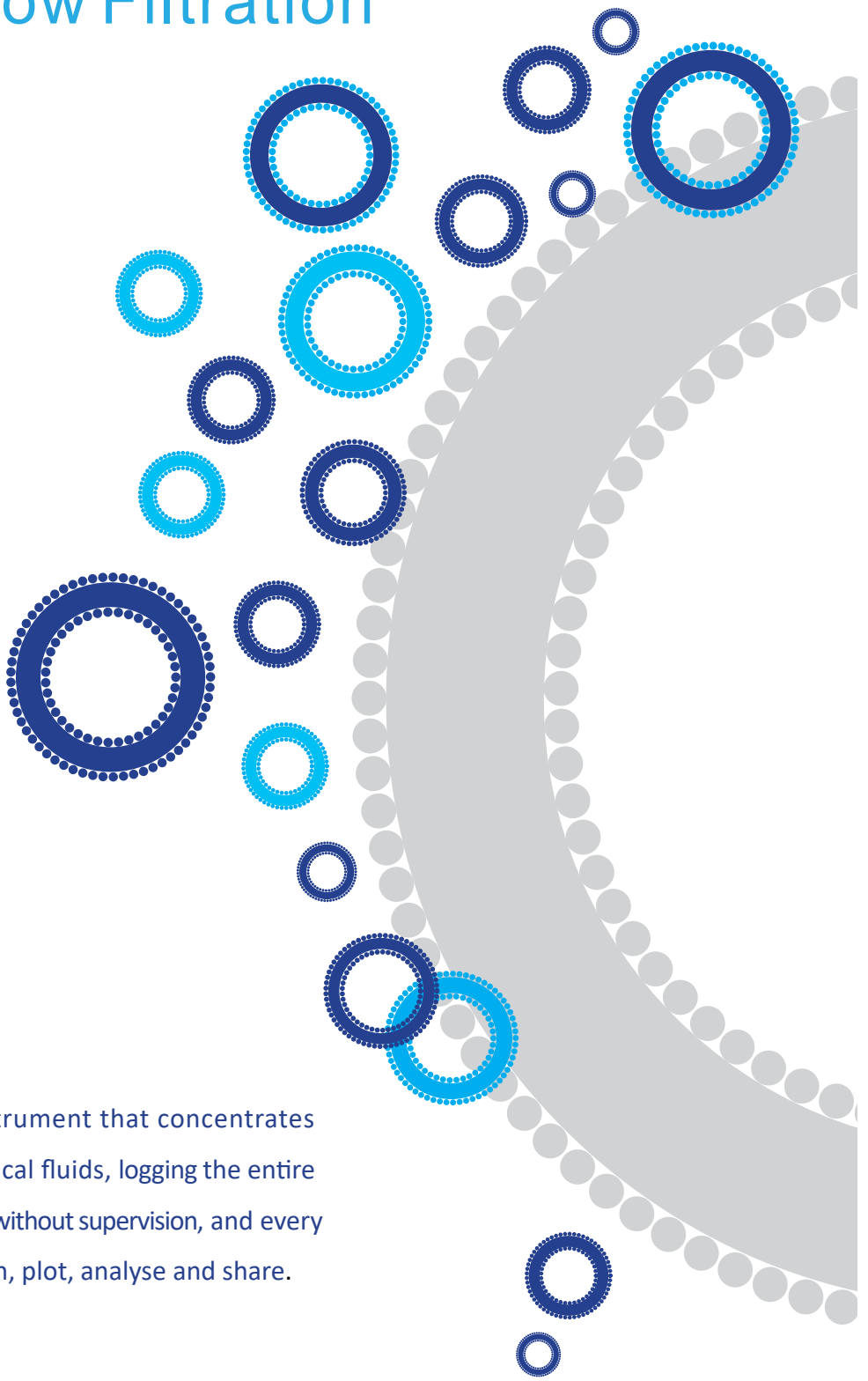
CELL guidance systems

EVlution™ Pro

Tangential Flow Filtration Automated

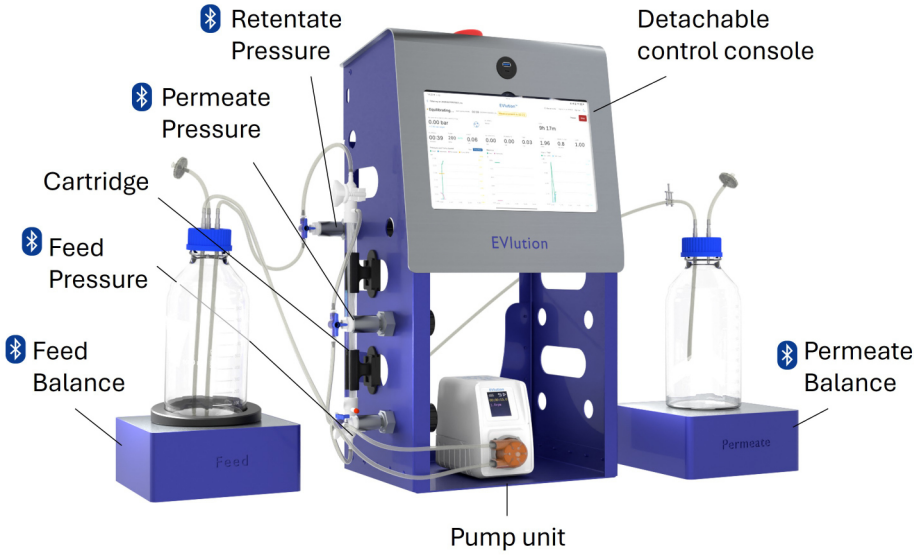


EVlution Pro is a benchtop TFF instrument that concentrates and diafilters up to 3 litres of biological fluids, logging the entire process. The system holds set pressure without supervision, and every result is written to a file you can open, plot, analyse and share.

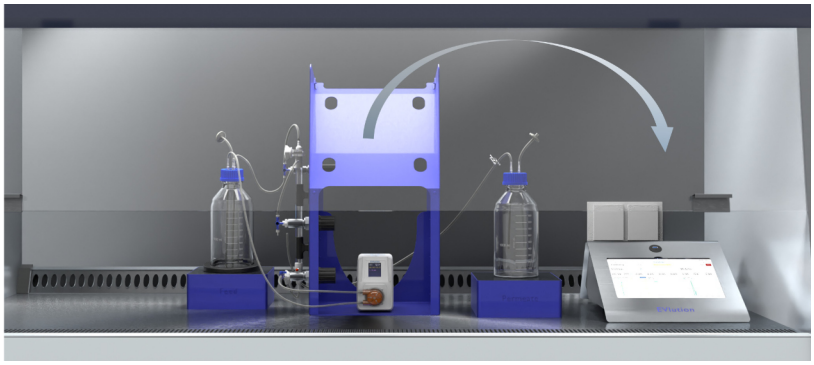
EVlution™ Pro

Automated Benchtop Tangential Flow Filtration

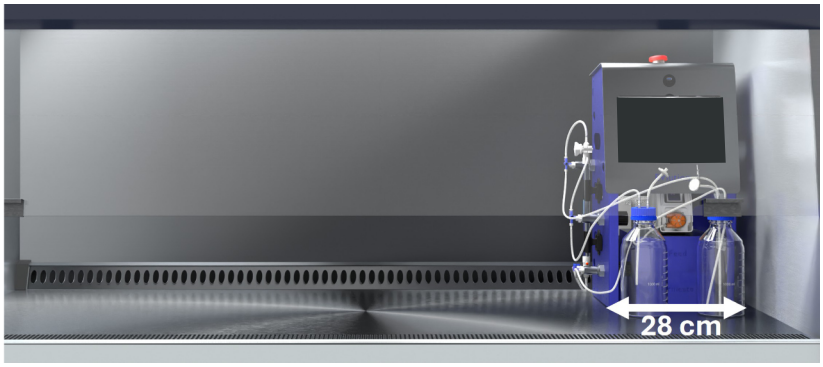
EVlution™ Pro continuously monitors five independent sensors reporting feed and permeate mass, and feed, retentate and permeate pressure. Sensors can be configured to suit the user. Data values are plotted in real time, to calculate TMP, flux, Lp and diavolumes and to control pump activity. Runs are stored against the cartridge that performed them and exported as an XLSX spreadsheet for analysis.



Flow filtration in a flow cabinet



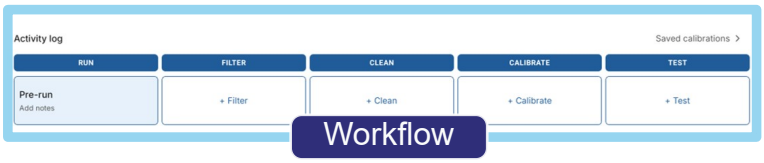
Discreet storage



- Automated filtering and diafiltering of proteins, nucleic acids, polysaccharides, EVs, viruses and VLPs
- Volume processable: up to 3 L on a 260 cm² cartridge
- 1 L in <90 minutes on a 94 cm² cartridge
- Ten cartridge pore sizes 5 to 1000 kDa
- Final sample recovery volume under 10 mL with SwitchFlow™
- Five, flexibly configured data-logging Bluetooth sensors
- Password-protected multi-user
- Programmable runs, audible alarms, walk-away operation
- Analysis software for Mac and Windows computers included
- Console lifts out for flow cabinet operation. Stacks to a 28 cm x 22 cm footprint for storage.

LEARN MORE

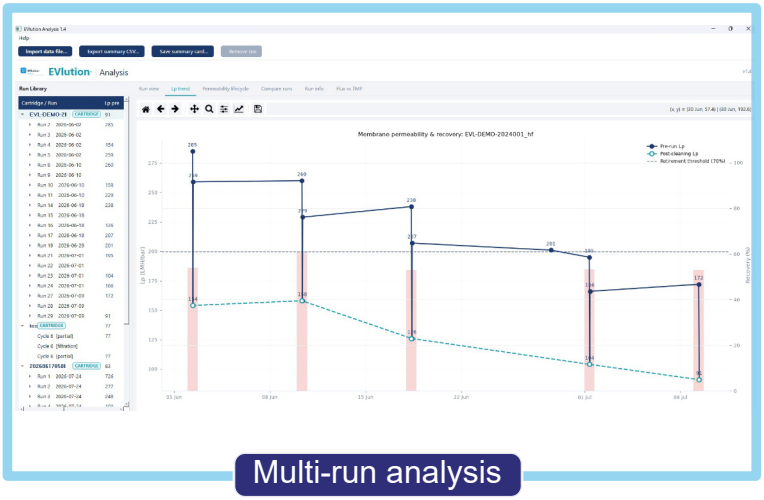
Detailed Monitoring and Comprehensive Analysis



Workflow

Cleaning

Filtering



Multi-run analysis

- **Workflow.** Every step is programmed: run, filter, clean, calibrate and test. Set the target, start the programme and leave it. Alarms and automatic shutdown protect the sample if conditions move outside defined limits
- **Cleaning.** Cycles run automatically at controlled low pressure and stop on their own, so each cartridge goes back into service in a consistent condition
- **Filtering.** Five sensors report continuously. TMP, flux, Lp and concentration factor are calculated in real time, and pump speed adjusts to hold the set pressure
- **Analysis.** Every run is stored against its cartridge. Compare permeability and recovery across runs, on the instrument or on a Mac or Windows computer, and see when a cartridge needs retiring. Cartridges are reusable up to 20 times

SwitchFlow™ Filtering

Starting volume 1 litre

Automated ↓ <90 minutes

20 mL of retentate

SwitchFlow™ ↓ <5 minutes

10 mL of retentate

For more information contact

info@cellgs.com or visit www.cellgs.com

Cell Guidance Systems' products and services enable control, manipulation and monitoring of the cell, both in vitro and in vivo

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- PeptiGel®
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- Matrix Proteins

Other research products
- Small Molecules
- Cell Counting Reagent
- Lipid Quantification Assay

Tangential Flow Filtration
- EVlution™ Instruments
- EVlution™ Cartridges

CELL guidance systems

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