

Purific

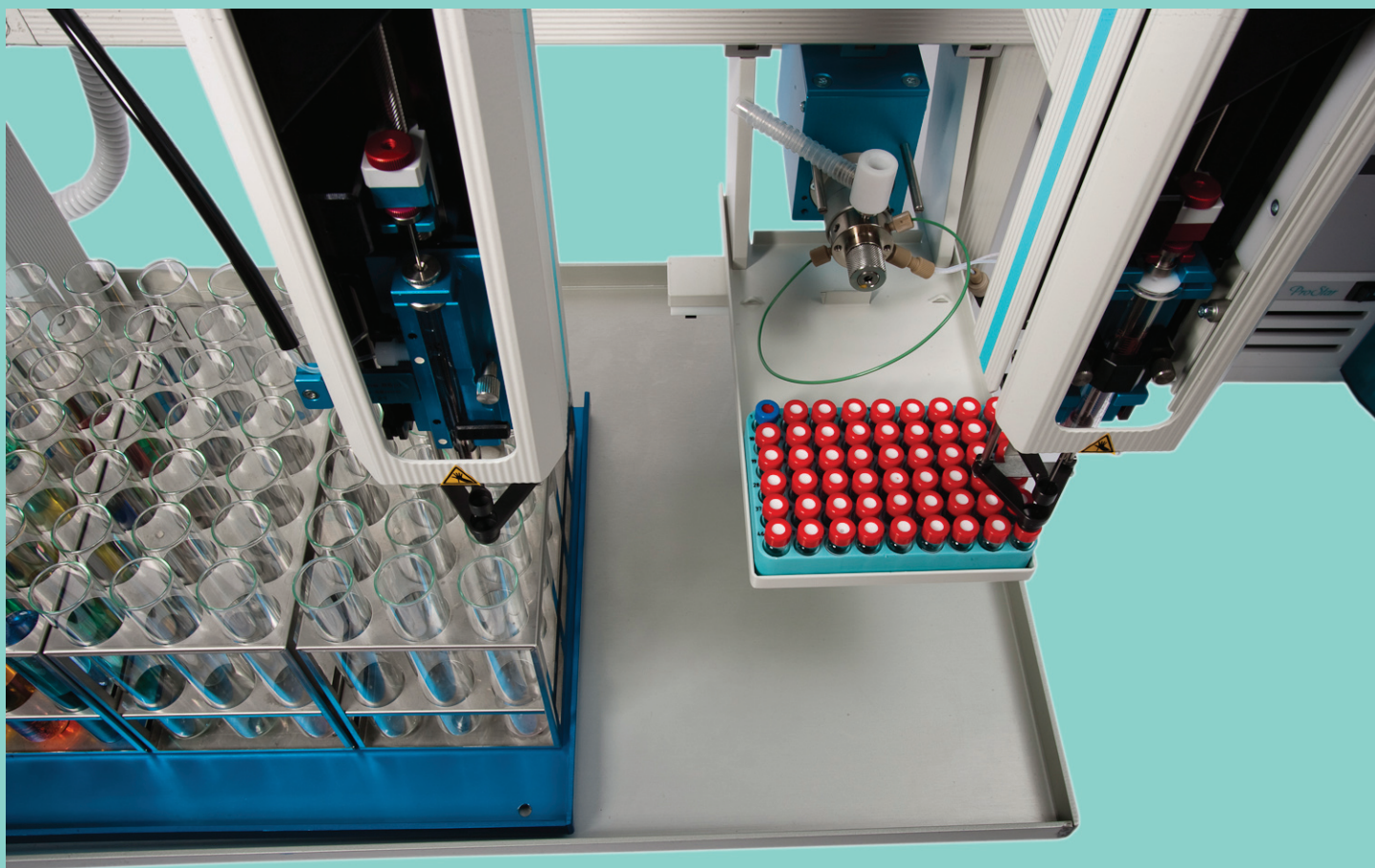
Two Fraction Injectors/Collectors

The Purific is the latest fully automated turn-key system from LEAP for isolating target compounds from complex samples. It is compatible with a wide range of sample sizes and a wide range of HPLC columns.

Unique Design

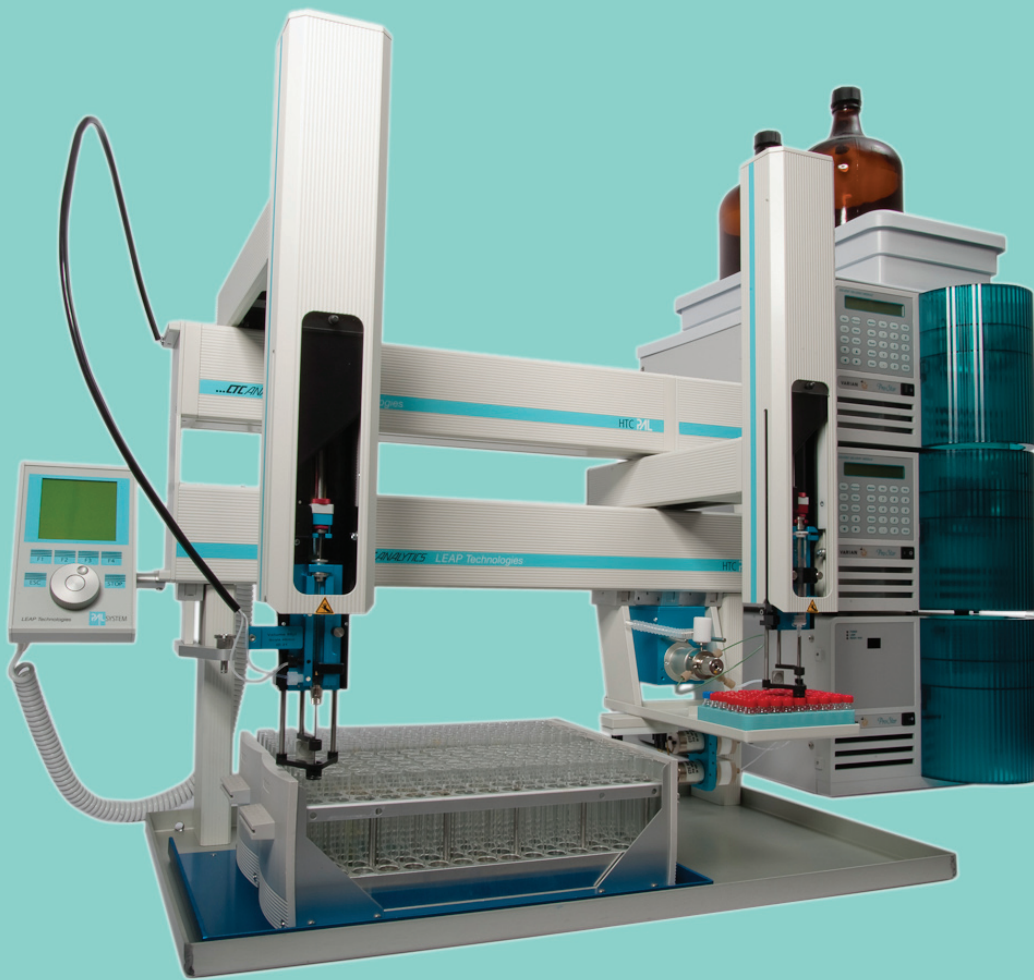
Two heads “one injects and one collects” for low carry-over

- Reliable two syringe concept for higher throughput
- Syringe only concept eliminates errors from Teflon tubing or transfer lines
- Flexibility for sample tray and collection tubes
- Pumps and versatile UV detector
- Driven by PEAK Harvester™ software with graphical real-time tracking
- Precise sample handling for dependable purification results
- Anti-static solvent lines
- Automated switching procedures to clean and equilibrate columns
- Double the throughput with optional 10 port valve



Applications

- Purification for biological or sensory evaluation (e.g. DMPKA)
- Replace older fraction collectors
- Pilot plant production
- Flash chromatography



Mini Purific

L: 690mm D: 690mm H: 690mm
Small Footprint Fits Fume Hood

Fraction Capacity

Semi-Prep

- 6 deepwell plates (96 or 384 wells)
- 234 Test Tubes 13x100mm (9ml)
- 150 Test Tubes 16x100mm (12ml)
- 150 Test Tubes 16x150mm (20ml)
- 108 Test Tubes 18x150mm (27ml)
- 108 Test Tubes 20x150mm (34ml)
- 63 Test Tubes 25x150mm (55ml)
- 2 Gilson 215 Racks

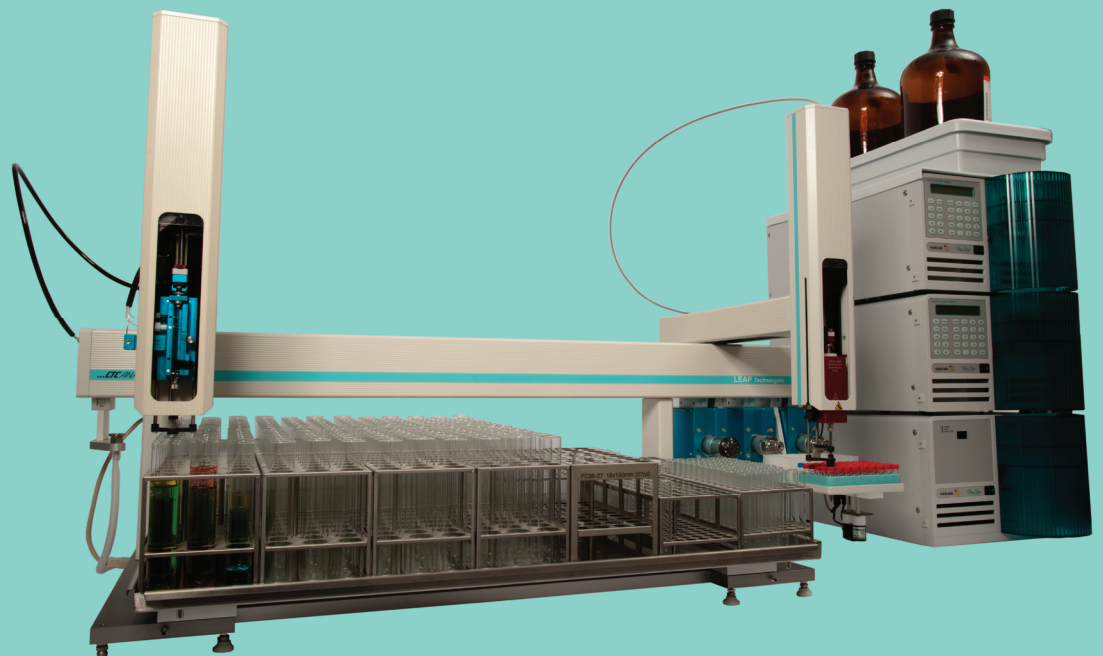
LB Purific (Large Bed)

L: 1428mm D: 1000mm H: 6
Huge Capacity

Fraction Capacity

Semi-Prep

- 1296 2ml vials
- 24 deepwell plates (96 or 384 wells)
- 1092 Test Tubes 13x100mm
- 700 Test Tubes 16x100mm (12ml)
- 700 Test Tubes 16x150mm (20ml)
- 504 Test Tubes 18x150mm (27ml)
- 504 Test Tubes 20x150mm (34ml)
- 294 Test Tubes 25x150mm (55ml)
- 12 Gilson 215 Racks



THE ACTIVE WASH STATION

Your system should detect everything...except carryover!

- Two, self priming, PTFE micro pumps capable of aspiration from below the lab bench
- Two wash solvent reservoirs (e.g. organic and aqueous)
- Cleaning solvent flows through the valve groove inside the needle seal and is also aspirated to wash the syringe

THE SOLVENT DELIVERY MODULE (Pumps)

- Wide range of flow rates, virtually all application needs are covered
- Smooth, precise solvent flow and system pressure are maintained with a built-in pressure unit
- User friendly pump heads are self-contained units that can be rapidly exchanged by simply loosening a finger-tight clamp
- Piston wash option dramatically extends seal life in biochromatography applications using high concentration salt buffers
- Flow accuracy: $\pm 1\%$ of selected flow rate or $\pm 0.05\%$ of maximum flow rate, whichever is larger (0.1% for 5 mL heads)
- Flow reproducibility: $\pm 0.1\%$ of selected flow rate or $\pm 0.05\%$ of maximum flow rate, whichever is larger (0.1% for 5 ml heads)

THE UV Vis DETECTOR

The Dual Wavelength UV-Vis Detector from LEAP delivers superb sensitivity and a wide dynamic absorbance range

- The extended absorbance range of the dual path length flow cells dramatically reduces the need for sample dilutions - saving valuable time
- Supports detection up to 40 absorbance units higher than most UV Vis detectors
- Deuterium source provides stable, precise wavelength settings in the ultraviolet spectrum and Quartz halogen lamp covers the visible range
- Simultaneously handles two user defined wavelengths
- Interchangeable cartridge-style flow cells handle microliter per minute flow rates to hundreds of milliliters per minute
- Routine maintenance is easy with front panel access. Thumb screws secure the lamps and flow cells making access and exchange “tool-free”

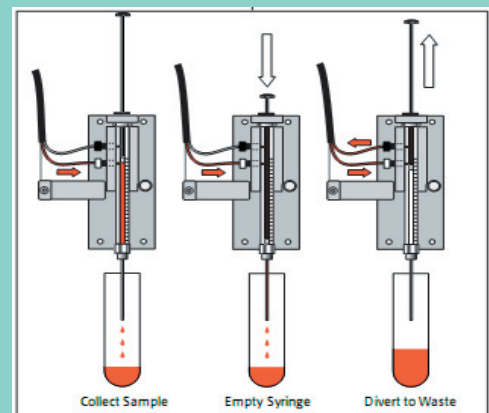
THE DUAL PROBE DESIGN

Injection syringe

- Standard PAL injection setup with 19 gauge needle and semi-prep LC valve

Collection syringe concept with only 4 microliter dead volume

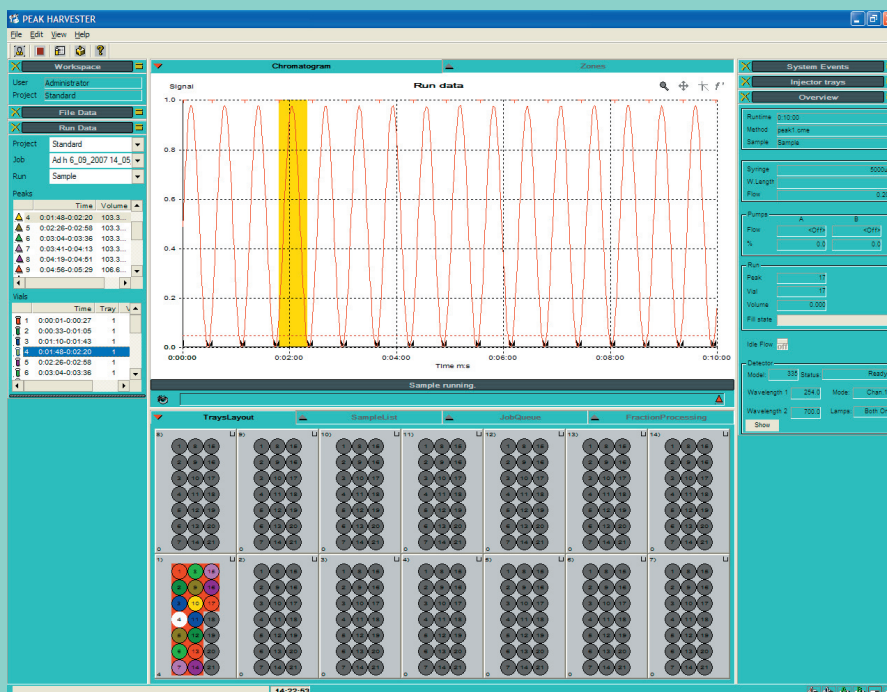
- Provides true high throughput processing never achieved before by conventional auto purification solutions
- Commonly used 3 way diverter valve is replaced by a unique side-port syringe that guarantees an extremely low dead volume between valve and collection outlet
- Special diverter valve design reduces the risk of fraction carryover
- Use of septa or non-septa vials



OPTIONS

- Regular and cooled stacks for 2ml vials (6x 54 pos per stack); 3 stacks
- Regular and cooled stacks for 18 deepwell plates
- Additional valve drive with 10-port valve for higher throughput
- Customized tube racks

PEAK Harvester™ Software Control



- Specifically designed to control every single step of the purification process
- Allows control of the LC pumps and detector
- “Smart” fraction collection on two signals simultaneously: time and/or slope and/or threshold
- Vial selection dynamic or static allowing pooled fractions
- Color coded sample and fraction tracking lets you review and report an enormous amount of analytical data
- Open access interface lets you walk up and log in your samples anytime
- Accepts sample list in different formats like CSV or XML
- Bar code capable
- Choice of collection pattern
- Inject and collect from any racks or stacks
- Save solvent and stop run after collection
- Signal noise cancelling system
- UV Wavelength part of the sample method

TIME-BASED

Using individual time slices per sample

PEAK-BASED

Using an analog signal or reading data directly from a detector

MASS-BASED Option

Using an output signal of the MS for Mass fractionation

SPE Option

Prepare, Filter, Dilute, Concentrate, Solvent Switch

