



# TRUSTED RESULTS. NEW POSSIBILITIES.

Wherever you work, however you work,  
*do it with Focus.*



*HPLC Anywhere*<sup>®</sup>

# Real-Time Results. Anytime. Anywhere.

Meet the Focus line of capillary HPLC technology, designed to be your trusted source of reliable results wherever and however you work. Our capillary-based liquid chromatography technology provides:

- High Sensitivity & Precision
- Compact, Versatile Footprint
- Reliable, Repeatable Results
- Minimal Solvent Consumption

## Axcend Focus LC®

*Reliable Results Within Reach*

Touting the smallest footprint in HPLC technology, the Axcend Focus LC is a **fully functional capillary liquid chromatography system in a single, integrated box**. Whether you need to bring the lab to the sample or perform LC analysis in your laboratory, the Focus LC will deliver results you can count on.



- **Uncompromising Performance** - Delivers precise, repeatable results with robust analytical capabilities to ensure reliable data, every time.
- **Power Meets Precision** - Operates up to 10,000 psi for enhanced sensitivity and minimized on-column sample dilution.
- **Small But Mighty** - A compact, space-saving footprint that can be used where traditional HPLCs can't, from the hood on the production line to the field for remote sampling.
- **Analytical Flexibility** - Easily replaceable cartridges provide the flexibility to match the wavelength and column to the specific needs of each analysis.
- **Effortless Integration** - Fully compatible with Waters Empower, Agilent OpenLab, Agilent ChemStation, and DataApex Clarity for a frictionless workflow.\*
- **Sustainable Savings** - Reduces solvent and waste costs to roughly 1/1000th of traditional systems, making it a smart long-term investment.

\*Empower, OpenLab and ChemStation, and Clarity are trademarks of Waters Corporation, Agilent Technologies, Inc., and DataApex respectively.



## AutoFocus™

### *Automate Your Workflow*

For labs looking to boost productivity, AutoFocus streamlines sample injection, allowing continuous analysis while freeing up time to focus on other critical tasks.

- **Increased Throughput & Reproducibility** - Delivers consistent, repeatable results with minimal manual intervention
- **Low Carry-Over** - Reduces cross-contamination with efficient needle washing
- **Flexible Formats** - Supports 40 2mL vials or standard 96-well plates



## InFocus™

### *Real-Time Reaction Monitoring*

Designed for in-line process analytical technology (PAT), InFocus delivers real-time LC data directly from production environments, maximizing production output with minimal waste and ensuring process integrity.

- **Compact Design** - Fits in lab hoods or next to reaction vessels for seamless PAT integration
- **Automated Workflow** - Unattended sampling and analysis reduce manual effort
- **Versatile Reaction Monitoring** - Tracks batch or continuous processes, even with limited sample availability



## FocusArray™

### *Expand Analytical Capabilities*

The FocusArray multi-spectrum detector enables broad-spectrum analysis, providing comprehensive visibility across a wide wavelength range and delivering detailed spectral information for advanced analytical workflows.

- **Comprehensive UV Spectrum** - Full absorption spectrum to identify maximum absorbance points
- **Exceptional Linearity** - Delivers three orders of magnitude linearity, a breakthrough for capillary HPLC
- **Improved Peak Resolution** - Reduced baseline drift enhances reliability and robustness

# Shift Your Focus

## Beyond the Limitations of Traditional HPLC

Legacy systems are bulky, resource-intensive, and restrict flexibility. Axcend is redefining the possibilities of chromatography by delivering high-performance results in a compact, efficient, and sustainable package.

### SMALLER

Axcend delivers trusted, repeatable results with the smallest footprint in HPLC technology, **enabling real-time monitoring and greater flexibility** for scientists and analysts. Our cutting-edge technology eliminates barriers of size, location, and complexity, providing users with high-performance, full-stack chromatography solutions that operate where traditional HPLC systems cannot.

### SAFER

Our capillary system dramatically reduces solvent consumption, minimizing exposure and making labs safer. The compact design allows for in-hood operation, containing fumes at the source and reducing the need for extensive ventilation systems. **Less solvent, less waste, and a safer working environment**—all without compromising analytical performance.

### MORE SUSTAINABLE

Axcend's innovative technology **significantly reduces solvent consumption, energy usage, and hazardous waste**, promoting greener lab practices while lowering operational costs and environmental impact.

Example using the Axcend Focus LC (labeled as "Compact LC"), conducted by Merck scientists and published in the *Journal of Separation Science*:

Metric/Parameter	HPLC	UHPLC	Compact LC
AMGS	1682	754	80
Instrument Energy Score	850 (50%)	334 (40%)	3 (4%)
Flow Rate (mL/min)	1.5	0.4	0.002
Run Time (min)	45	30	30
Total (mL), 13 Runs	878	156	0.8

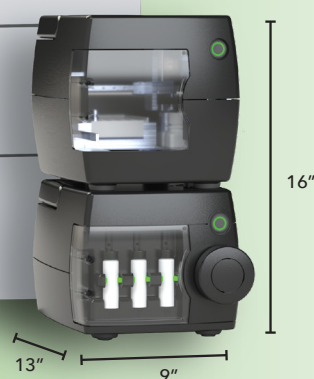
Reference: Hicks MB, et al. *J Sep Sci.* 2023; **46**:2300300

Solvent Cost (avg per year)	\$47,393	\$8,425	\$42
Waste Disposal Cost (avg per year)	\$30,976	\$5,507	\$28

AVERAGE LEGACY SYSTEM



FOCUS LC SYSTEM



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