

Make **HPLC Anywhere**® a reality with the **Axcend Focus LC**® – a shoebox-sized, hand-portable, UV-Absorption-based capillary HPLC that breaks the mold for traditional high-performance liquid chromatography systems.

Lightweight, Portable and Powerful.

The **Axcend Focus LC** is a remarkably small HPLC that weighs 17.6 lbs., runs on AC or DC power, and operates at up to 10,000psi.

Micro Volumes. Micro Waste.

Why use liters of solvents per week? With the **Axcend Focus LC**, you'll use under 10 mL per week, and produce roughly the same amount of waste, even when used 24x7.

Integration Is Easy.

The award-winning design of the **Axcend Focus LC** makes it easy to integrate with other instruments, like mass spectrometers and auto samplers. And because solvent and waste vials are kept inside our HPLC, moving it from one location to another is a snap.



Use It Anywhere. Literally.

Not only does the **Axcend Focus LC** work in any lab. But it also works in locations other HPLCs cannot, like inside a fume hood, in a glove box, or in the field. In other words, anywhere.

Unique Time-Saving Cartridges.

Most HPLCs require scientists to manually adjust their hardware configurations, but not the **Axcend Focus LC**. Our compact, *tool-less* and easily swappable cartridges make modifying your hardware settings fast and easy.

Lower Costs. Huge Savings.

Not only is the **Axcend Focus LC** highly competitive price-wise, but the ongoing costs to operate this capillary HPLC may be as low as 1/1400th of your current expenses for solvents and waste disposal. (*Ask us for more details.*)

Physical Specifications

Axcend Focus LC (Height x Width x Depth)

20.1x23.1x32.0 cm (7.9x9.1x12.6 in)

Weight (without cartridge):

8.0 kg (17.6 lbs) **Axcend Focus LC**

Cartridges (Height x Width x Depth)

4.1x11.2x18.8 cm (1.6x4.4x7.4 in)

Single detector cartridge: 0.26 kg (9.0 oz)

Dual detector cartridge: 0.29 kg (10.1 oz)

Solvent & Waste Vials (Height x Diameter)

Solvent-A Vial: 60x17 mm (2.38x0.63 in)

Solvent-A Vial (volume): 7.4 mL

Solvent-B Vial: 45x15 mm (1.77x0.6 in)

Solvent-B Vial (volume): 3.7 mL

Waste Vial: 70x21 mm (2.76x0.83 in)

Waste Vial (volume): 14.8 mL

System Features

Pressure

Up to 10,000 psi (689 bar)

UV-Absorption Detectors (single or dual)

235, 255 and/or 275 nm wavelength

Capillary Columns (single or dual)

Length: 50, 100, 150, 200, or 250 mm

Internal Diameter (ID): 150 µm

Packing Material

Standard: 1.7 – 3.0 µm fused silica particles

Optional: Up to 5.0 µm

Flow Rate Range

0.5 – 10 µL/min

Delay Volume

1.0 µL

pH Range

2.0 – 10.0

Solvent & Sample Management

Number of Solvents

Up to two: A and/or B

Injection Volume Range

- Internal loop: 4, 10, 20, 30, or 40 nL
- External loop: 200 nL and greater

Injection Modes

Manual and automated

Gradient Formation

High-pressure mixing, binary gradient

Flow Ramping

User-defined via software interface

Primary Wetted Materials

- Fused Silica
- PEEK
- 316 Stainless Steel
- Polyimide

Solvent & Waste Storage

All vials easily accessible and integrated inside the **Axcend Focus LC**

Instrument Controls

Axcend Focus LC Cartridge

- Simple one-way manual insertion/removal
- Hand-tightened *AssurLoc*™ system provides ferrule alignment and leak prevention

Sample Delivery

Topside port with manual or automated injection

Solvent & Waste Vial Access

- Easy insertion/removal into/from the front panel of the **Axcend Focus LC**
- One-button Start/Stop control

Method & Data Control

Method or Manual-based Control

User-configurable Data Filters

Data Analytics

- Filtering
- Peak Detection (area, height and retention time)

Data File Import/Export

- CSV
- PDF
- AnIML
- AXR

Viewable "Live" Data During Runs

Pressure or Flow-based Control

Overpressure, overflow and empty protection settings

Power Specifications

AC

100-240 V (AC); 50/60 Hz; 1.4 amp

DC (Battery)

12 V (DC), 126 Wh (LiFePO₄, with higher thermal and chemical stability than standard Li-ion batteries)

Operating Time

10+ hours without recharging

Expected Life

>2000 charge/discharge cycles

Software

Secure wireless and wired HPLC output and control of the **Axcend Focus LC** occurs via *Axcend Drive*™ software on computers, tablets and iPhones®. The following operating systems are recommended:

Operating Systems Supported

- Windows v10 and higher
- iOS 12.1 and higher
- Ubuntu 16.04 and higher



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