

Make **HPLC Anywhere**® a reality with the **Axceed 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 **Axceed 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 **Axceed 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 **Axceed 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 **Axceed 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 **Axceed 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 **Axceed Focus LC** highly competitive price-wise, but the ongoing costs to operate this capillary HPLC may be as low as 1/1400<sup>th</sup> 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 (LiFePO<sub>4</sub>, 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

The logo for Axcend, featuring a stylized mountain range icon above the word "Axcend" in a bold, sans-serif font.

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