

**Bring the Lab to the Sample®** with the **Axcend Focus LC™**, a new, portable high-performance liquid chromatograph (HPLC). The **Axcend Focus LC** is a shoebox-sized, nano-flow capillary solution that delivers greater sensitivity than other UV-Absorption-based HPLC systems, while using 1/500<sup>th</sup> the solvents and producing 1/500<sup>th</sup> the waste. Its size and weight allow for convenient use anywhere: from the lab bench to inside a fume hood and from in-the-field analysis to right on a production line. The **Axcend Focus LC** utilizes single or dual on-column UV-Absorption Detectors conveniently housed in a compact, easy-to-use cartridge system. Our 150 µm internal diameter (ID) fused silica capillary columns are typically packed with 1.7–3.0 µm stationary phase particles (with other packing material and column dimensions possible). The portable design of the **Axcend Focus LC** also allows for easy integration with auto-samplers and convenient coupling with mass spectrometers, along with secure wireless or wired control and data output through connected devices running leading Web browsers.

## PHYSICAL SPECIFICATIONS

**Axcend Focus LC** (Height x Width x Depth)  
20.1x23.1x32.0 cm (7.9x9.1x12.6 in)  
Weight (without cartridge): 7.26 kg (16.0 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: 6.0x1.6 cm (2.38x0.63 in)  
Solvent-A Vial (volume): 9.0 mL

Solvent-B Vial: 4.5x1.5 cm (1.75x0.56 in)  
Solvent-B Vial (volume): 5.0 mL

Waste Vial: 7.0x2.0 cm (2.75x0.81 in)  
Waste Vial (volume): 17.0 mL

## 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 front panel insertion/removal into/from the **Axcend Focus LC** front panel

**Power**  
One-button Start/Stop control

## SYSTEM FEATURES

**Pressure**  
Up to 6,000 psi (410 bar)

**UV-Absorption Detectors** (single or dual)  
255 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, with other packing material available

**Dynamic Injection**  
Sample injection possible at any time

**Flow Rate Range**  
0.5 – 10 µL/min

**Flow Control**  
Non-split flow control algorithm

**Delay Volume**  
1.0 µL

**pH Range**  
2.0 – 10.0

The shoebox-sized **Axcend Focus LC** is a lightweight HPLC designed for both field and laboratory use.



## 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: 175 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**

## SOFTWARE

Secure wireless and wired HPLC output and control of the **Axcend Focus LC** occurs through computers and iPads that support HTML5. Specific browsers and operating systems supported include:

### Browsers Supported

- Chrome: v65 and higher
- Safari: iOS 10 and higher
- Firefox: v56 and higher
- Opera: v8

### Computer Operating Systems Supported

- Windows v10 and higher
- Mac High Sierra and Mojave
- Linux (kernel 2.6x and higher)

### iPad Operating Systems Supported

- iPad iOS v12.1.1 and higher

## 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



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