

Bring the Lab to the Sample™ with the **Axcent Focus LC[®]**, a new, portable high-performance liquid chromatograph (HPLC). The **Axcent Focus LC** is a shoebox-sized, nano-flow capillary solution that delivers greater sensitivity than other UV-Absorption-based HPLC systems, while using 1/500th the solvents and producing 1/500th 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 **Axcent Focus LC** utilizes single or dual on-column UV-Absorption Detectors conveniently housed in a compact, easy-to-use cartridge system. Our 150 μ m internal diameter (ID) fused silica capillary columns are typically packed with 1.7–3.0 μ m stationary phase particles (with other packing material and column dimensions possible). The portable design of the **Axcent 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.

PHYSICAL SPECIFICATIONS

Axcent Focus LC (Height x Width x Depth)
20.1x23.1x32.0 cm (7.9x9.1x12.6 in)
Weight (without cartridge): 7.82 kg (17.25 lbs)

Axcent 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

Axcent 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 **Axcent Focus LC** front panel

Power
One-button Start/Stop control

SYSTEM FEATURES

Pressure
Up to 10,000 psi (689 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 μ m

Packing Material
Standard: 1.7 – 3.0 μ m fused silica particles
Optional: Up to 5.0 μ m, with other packing material available

Dynamic Injection
Sample injection possible at any time

Flow Rate Range
0.5 – 10 μ L/min

Flow Control
Non-split flow control algorithm

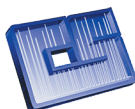
Delay Volume
1.0 μ L

pH Range
2.0 – 10.0



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

www.axcentcorp.com



**CHROMATOGRAPHIC
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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 that support HTML5. Specific operating systems supported include:

Computer Operating Systems Supported

- Windows v7 and higher
- Mac High Sierra and later
- Ubuntu 16.04 and later

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

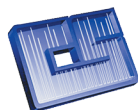
>2000 charge/discharge cycles



www.axcendcorp.com

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