

Series I Isocratic System



The Series I Isocratic System is a cost-effective HPLC system. The instrument is equipped with a high-pressure (2500 psi) isocratic pump, injection valve, and a fixed-wavelength UV detector.

The Series I Isocratic System is well suited for chemistry education applications as well as dedicated industrial processes or quality control.

The Series I Isocratic System comes with the following standard features:

- HPLC pump
- Prime-purge valve; self-flush feature
- Injector valve with sample port
- Fixed-wavelength detector, 254 nm
- Inlet lines with filters, self-flush tubing
- Accessory kit

Laboratories with multiple samples for the same analysis can now set up dedicated HPLC instruments for a given application, eliminating the need for constantly reconfiguring more expensive equipment for different processes. R&D laboratories responsible for method development can transfer a method to this simple system for reduced operating costs in the plant.

The system includes a 254 nm detector. Optional wavelength kits for 214 nm, 229 nm, 280 nm, 350 nm, 370 nm, or the visible range (370-800 nm) are available upon request.

Options:

- Columns
- Discrete wavelength kits for UV/Vis



349 N Science Park Rd., State College PA 16803
Phone: 800-345-5557 / 814-234-7317 Fax: 814-238-6072
www.laballiance.com

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Specifications

Series I Pump

Rated Pressure	2500 psi
Flow rates	0.01 to 9.99 mL/min.
Accuracy	2%
Pulsation	2% peak-to-peak at 1000 psi, 1 mL/min. with LO-Pulse™ pulse damper in line
Flow Precision	0.5%
Remote control	RS-232 and run/stop
Features	Prime-purge valve, self- flush, Pulse damper
Power	115, 230 Vac, 50/60 Hz
Dimensions	6.4" H x 8" W x 14.5" D 16 x 20 x 36.5 cm
Weight	19 lbs. (7.5 kg)

Ordering Information

Description	Part No.
Series I Isocratic System, SS	SD-ISO-1-S
Series I Isocratic System, PEEK	SD-ISO-1-P
Options	
<i>Data system:</i>	
PeakSimple data system, 110V	SR-8600-1055
PeakSimple data system, 220V	SR-8600-1255

Upgrades

Upgrade to a binary gradient by adding a second pump and mixing kit. Contact LabAlliance for details.

Fixed Wavelength Detector

Wavelength	254 nm Hg line; other wavelength options on request
Options:	User changed lamps/filters: Hg 350 lamp; for 350 nm Hg 370 lamp; for 370 nm Zn lamp; 214, 308 nm Cd lamp; 229, 326 nm W lamp; 370-1000 nm Available upon request only
Bandwidth	<0.1 nm at ½ height
Std. flow cell	10 mm path length with 18 µL volume, 0.010" ID X 0.063" OD
Noise and Drift:	<±1 x10 ⁻⁴ AU (254nm, over 30 min. period, peak-to-peak, 1.0 sec rise time) with std. flow cell at constant temperature
Input/Output	RS-232 computer I/O; Injection input (event or run); Auto-zero input; one analog integrator or chart recorder output, (voltage range default 1.0 V/AU); selectable analog range outputs of 4.0, 2.0, 1.0, 0.5, 0.2, 0.1, 0.05, 0.01, 0.005, 0.002, 0.001, 0.0005 AU/V with voltage range of ± 4 V at any scale
Dimensions	6.6" H x 9.4" W x 15" D (17 x 24 x 38 cm)
Weight	12 lbs. (5.5 kg)



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