

**HL459**

PRODUCT SPECIFICATION SHEET

# HIGH PERFORMANCE LIQUID CHROMATOGRAPHY Isocratic System



HPLC  
Isocratic System

# HL 459



Upgradable



LCD Display



Flowcell



PC

Ideal for routine Isocratic separations and Quality assurance applications.

Our Economical HPLC systems are perfect for tight spaces and smart budgets.

Easily Upgradable to Gradient.

## SALIENT FEATURES

- High performance Pulse free piston pump with low dead volume diaphragm type pulse damper.
- Variable wavelength UV-VIS Detector features high sensitivity with absorbance ranges from 0 to 3.0 AU.
- MS Windows® based software Elichrom® provides complete system control, Data Analysis and multiple reporting options.
- Self flushing, Pulse Damper with Pressure Monitoring.
- Connecting tubes available in Stainless steel and Bio Compatible PEEK materials.
- Easy exchange of the Flow cells, Injection loops allows using the system for all applications between Micro upto preparative HPLC.
- Self diagnostics functions for start up hardware checks.
- Easy operatable Manual Injection Valve.
- An Autosampler, Fraction collector, Solvent Recycler can be easily added.
- Tools to facilitate 21 CFR part 11 compliance.



Pharmaceutical



Pesticide



Research



Chemical



Fertilizer



Food & Beverages



Clinical



Academic

## APPLICATIONS

- Laboratories that demand Accuracy, Precision & reliability.
- Drug discovery, Drug metabolism, Proteins and Peptides Separations.
- Quality control labs in Pharmaceutical industries .
- Method development in R&D labs.
- Academic Institutes.

# SPECIFICATIONS

## HD 469

VARIABLE  
UV-VIS DETECTOR

### SPECTRAL

Range	190 to 800 nm
Bandwidth	4 nm
Readability	0.1nm
Accuracy	± 0.5 nm
Repeatability	± 0.2 nm

### LIGHT SOURCE

Deuterium Lamp (D<sub>2</sub>) &  
Tungsten (W) Halogen Lamp

### DATA PROCESSING & PRESENTATION

PC

### PHOTOMETRIC

Range	0 to 3.0 AU
Drift	<2.0 x 10 <sup>-4</sup> AU/hr @254 nm
Noise	± 0.001 AU @254 nm, 1.0 sec. rise time
Sensitivity Range	0.001 AU to 3.000 AU
Readability	0.0001 Abs

### DETECTOR

Silicon Photo Diode

### PHYSICAL DIMENSIONS

Size (WxDxH) in mm	246* x 437 x 195
Weight (in kg)	Approx. 10

\*Excluding 60 mm cell width

### FLOW CELL

Type	Analytical
Path Length	10 mm
Volume	15 µl
Material	Stainless Steel

### TIME INTERVAL

0.1, 0.2, 0.3, 0.4, 0.5, 1 & 2 sec.

### PC CONNECTIVITY

USB Interface

### POWER REQUIREMENT

90-260 V AC, 50-60 Hz, 1Φ,  
125 VA Max.

### FLOW RATE

Standard	0.01 to 10 mL/min
Optional	0.001 to 5 mL/min
	0.1 to 40 mL/min

### PHYSICAL DIMENSIONS

Size (WxDxH) in mm	246 x 437 x 140
Weight (in kg)	Approx. 11

## HP 464

PUMP

QTY 1

### PRESSURE

Standard	0 to 6,000 psi ( 10mL SS head)
Optional	0 to 6,000 psi ( 5mL SS head)
	0 to 5,000 psi ( 5 & 10 mL/min PEAK )
	0 to 1,600 psi ( 40 mL/min SS or PEAK head)

### FLOW ACCURACY

± 2 %

### FLOW PRECISION

0.2 % RSD

### FEATURES

Pressure Monitoring  
Prime Purge Valve  
Pulse Damper  
LED Display  
RS-232 Input

### POWER REQUIREMENT

90-260 V AC, 50-60 Hz, 1φ, 70 VA Max.

### ACCESSORIES SUPPLIED

With Instrument	Columns, Injector, Mobile Phase Filter, Prime Purge Syringe, Injection Syringe.
At extra Cost	Other Applicable Columns & SGE Syringe and Sonicator.

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