

HIGH PERFORMANCE
LIQUID CHROMATOGRAPHY

ISOCRATIC SYSTEM

HL 459

PRODUCT SPECIFICATION SHEET



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		PHOTOMETRIC		FLOW CELL	
Range	190 to 800 nm	Range	0 to 3.0 AU	Type	Analytical
Bandwidth	4 nm	Drift	<2.0 x 10 ⁻⁴ AU/hr @254 nm	Path Length	10 mm
Readability	0.1nm	Noise	± 0.001 AU @254 nm, 1.0 sec. rise time	Volume	15 µl
Accuracy	± 0.5 nm	Sensitivity Range	0.001 AU to 3.000 AU	Material	Stainless Steel
Repeatability	± 0.2 nm	Readability	0.0001 Abs	TIME INTERVAL	
LIGHT SOURCE		DETECTOR		0.1, 0.2, 0.3, 0.4, 0.5, 1 & 2 sec.	
Deuterium Lamp (D ₂) & Tungsten (W) Halogen Lamp		Silicon Photo Diode		PC CONNECTIVITY	
DATA PROCESSING & PRESENTATION		PHYSICAL DIMENSIONS		USB Interface	
PC		Size (WxDxH) in mm		246* x 437 x 195	
		Weight (in kg)		Approx. 10	
		*Excluding 60 mm cell width		POWER REQUIREMENT	
				90-260 V AC, 50-60 Hz, 1φ, 125 VA Max.	

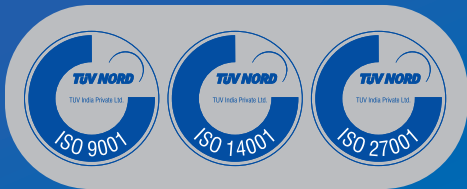
FLOW RATE		PHYSICAL DIMENSIONS	
Standard	0.01 to 10 mL/min	Size (WxDxH) in mm	246 x 437 x 140
Optional	0.001 to 5 mL/min	Weight (in kg)	Approx. 11
	0.1 to 40 mL/min		

HP 464

PUMP QTY 1

PRESSURE		FLOW ACCURACY		FEATURES	
Standard	0 to 6,000 psi (10mL SS head)	± 2 %		Pressure Monitoring	
Optional	0 to 6,000 psi (5mL SS head)	FLOW PRECISION		Prime Purge Valve	
	0 to 5,000 psi (5 & 10 mL/min PEAK)	0.2 % RSD		Pulse Damper	
	0 to 1,600 psi (40 mL/min SS or PEAK head)			LED Display	
POWER REQUIREMENT		90-260 V AC, 50-60 Hz, 1φ, 70 VA Max.		RS-232 Input	

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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Specifications are subject to change as a process of continual development.

ELICO®
Connecting Science & Lab

ELICO Ltd

B-90, A.P.I.E., Sanathnagar,
Hyderabad 500 018, A.P., India

tel +91 40 44451234

fax +91 40 23771639

elico@elico.co

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ahm@elico.co blr@elico.co bpl@elico.co chn@elico.co kel@elico.co del@elico.co gau@elico.co hyd@elico.co kol@elico.co lku@elico.co mum@elico.co
+91 79 26565402 +91 80 23343470 +91 755 2460817 +91 44 28361949 +91 484 2536380 +91 11 23678736 +91 9433065156 +91 40 23777999 +91 33 32971135 +91 9971092539 +91 22 24110402