

HL460

PRODUCT SPECIFICATION SHEET

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY Binary System



HPLC
Binary System

HL 460



Binary System



LCD Display



Flowcell



PC

Ideal for routine Binary separations and Quality assurance applications.

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

Variable wavelength UV-VIS Detector features high sensitivity with absorbance ranges from 0 to 3.0 AU.

SALIENT FEATURES

- High performance Pulse free pump with low dead volume diaphragm type pulse damper.
- 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 or 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 (D₂) &
Tungsten (W) Halogen Lamp

DATA PROCESSING & PRESENTATION

PC

PHOTOMETRIC

| | |
|----------------------|---|
| Range | 0 to 3.0 AU |
| Drift | <2.0 x 10 ⁻⁴ 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 2

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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