





High Performance Liquid Chromatography

LHLC-B1 Series

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HPLC system LHLC-B10

This HPLC system is incorporated with advanced high pressure injection technique. The detector is equipped with 24 bits AD transducer to assure low noise, low drift and high sensibility. This HPLC system can conveniently change the sample input volume. It comes with dual piston reciprocating and series pump for consistent and stable flow.

Features

- ☑ Inclusion of high performance patent gradient mixer
- ✓ Intelligent anti-control software with powerful control function
- ✓ Stand-alone TFT colour screen with touch control
- High pressure gradient pump

Applications

This gradient HPLC system has multiple applications in medicine analysis, detection of protein content of food, environmental analysis, oil and chemical analysis and in scientific research studies.

Specifications

Model no.	LHLC-B10	
High pressure gradient pump		
Peak operating pressure	45MPa, Stainless steel pump	
Pressure error	±0.02MPa	
Flow rate range	0.001-9.999mL/min	
Flow rate precision	±5%	
Flow rate repeatability	RSD≤0.1%	
Power	220V±10%, 50Hz, 250W	
Size (W*H*D)	520×420×160mm	
UV Detector		
Wavelength	190-680nm	
Wavelength error	≤±lnm	
Baseline noise	≤±2×10 ⁻⁵ AU (Methyl alcohol, 1mL/min, 254nm, 20°C)	
Wavelength repeatability	0.2nm	
Flow cell	8µL	

Drift	≤5×10 ⁻⁴ AU/h (Methyl alcohol, 1mL/min, 254nm, 20°C)	
Limit of detection	≤2×10 ⁻⁹ g/mL (Naphthalene methyl alcohol solvent)	
Automatic Injector		
Sample value	Maximum 2mL, 6×25=150 units	
Sample volume	O-lmL, adjustable	
Sample residual	<0.02%	
Column oven		
Temperature control	Room temperature ±5°C-80°C	
Constant temperature accuracy	±1°C	
Constant temperature precision	≤0.1°C	
Temperature setting resolution ratio	0.1°C	
Overall Instrument		
Quantitative analysis	RDS6≤0.2%	
Quantitative repeatability	RDS6≤0.2%	
Sample residual	≤0.01%	
Gradient error	≤0.01%	

HPLC system LHLC-B11

This HPLC system delivers high quality performance and reliable results in order to meet the stringent requirements of the customer. To meet GMP/GLP requirements of the instrument, this HPLC system has hardware with VP function which records maintenance information and operations.

Features

- ✓ High pressure constant-current infusion pump
- **▼** Even mixing of the injections using mixers
- Supreme appearance to meet the customer's visual requirements
- Simple, easy to use operations
- UV detector unit consists of dual beam monochromator, light battery, deuterium lamp

Applications

This HPLC has applications in the scientific research studies, detection of residual amount in medicine, food, alcohol and in chemical analysis.

Specifications

Model no.	LHLC-B11	
High pressure constant-current infusion pump		
Infusion Way	Micro volume series dual-piston	
Infusion pressure	0-999Psi	
Flow rate error	≤0.5%	
Flow rate range	0.001-9.999mL/min (in 0.001mL/min increments)	
Stability error for the flow rate	≤0.2%RSD	
Gradient error	±1% (O-100% water/acetone solvent)	
Pressure pulsation	<15Psi (flow rate 1mL/min, pressure 600-1600Psi)	
Air tightness	Pressure 5400Psi, 10min time, pressure drop<400Psi	
Time program function	Yes	
Size (W*H*D)mm	260×130×420	
Weight	11kg	
Operation temperature	4-40°C	

UV detector		
Wavelength range	190-700nm	
Wavelength error	≤lnm	
Wavelength repeatability error	≤±0.1nm	
Dynamic noise	≤±0.75×10 ⁻⁵ AU (methyl alcohol 1mL/min, 254nm, 20°C)	
Static noise	$\leq \pm 0.5 \times 10^{-5}$ A (empty cell, response time, 1second, 20°C)	
Dynamic baseline Drift	≤±1×10 ⁻⁴ AU/h (methyl alcohol 1mL/min, 254nm, 20°C)	
Static baseline Drift	≤0.5×10 ⁻⁴ (empty cell, response time, 1second, 20°C)	
Linear range	≥10 ⁴	
Limit of detection	≤1×10 ⁻⁹ g/ml (Naphthalene methyl alcohol solvent)	
Quantitative repeatability	RSD6≤0.1%	
Qualitative repeatability	RSD6≤0.5%	
Spectrum band width	6nm	
Flow cell volume	8μL	
Optical path	10nm	
Time program function	Yes	
Size (W*H*D) mm	260×130×420	
Weight	11kg	
Operation Temperature	4-40°C	



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