

## High Performance Liquid Chromatography System

### Introduction:

Liquid chromatography is a technique that uses a liquid as the mobile phase to separate mixtures through a stationary phase. It utilizes the differences in partition coefficients and adsorption capacities of various components between the two phases, achieves separation through repeated distribution equilibrium, and combines with detectors for qualitative and quantitative analysis.



### Features:

- \* The original pipelines and signal lines between the units are integrated into the instrument, which is convenient for installation and maintenance, economical and efficient.
- \* The one-way valve is upgraded to an integrated one-way valve, which greatly reduces the maintenance cost while ensuring the service life of the instrument.
- \* Intelligent networked chromatography management workstation software is configured.
- \* Liquid leakage alarm, pump head pressure loss alarm, etc. are configured.

### Technical Parameters:

Model	BK-80HPLC (Type I) Isocratic manual system	BK-80HPLC (Type II) Isocratic manual system
Flow Range	0.001~5.000ml/min	
Flow Stability Error SR	<0.1%	
Flow Setting Value Error SS	≤±1%	
Maximum Working Pressure	40MPa	
Qualitative Repeatability	RSD6≤±0.2%(naphthalene/methanol standard)	
Quantitative Repeatability	RSD6≤±0.5% (naphthalene/methanol standard)	
Pressure Fluctuation	0.1MPa	
Spectrum Bandwidth	8nm	
Wavelength Accuracy	±1nm	
Wavelength Precision	Below 0.1nm	
Noise	≤0.25×10 <sup>-5</sup> AU(static)/±1×10 <sup>-5</sup> AU (dynamic, under given conditions)	
Drift	≤0.4×10 <sup>-3</sup> AU/h(static)/≤2×10 <sup>-3</sup> AU/h (dynamic, under given conditions)	
Minimum Detectable Concentration	5×10 <sup>-9</sup> g/mL(naphthalene/methanol solution)	
Configuration	Main unit (Isocratic+UV detector), injection valve, control software, 150mm C18 column	Main unit (Isocratic+UV detector), injection valve, control software, 250mm C18 column
Optional Accessories	Column, column oven	
Power Supply	Standard: AC220V 50/60Hz; optional: 110V 50/60Hz	
External Size(W*D*H)	220*455*267mm	
Packing Size(W*D*H)	450*630*450mm	
Gross Weight	20kg	

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