

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 ⁻⁶ AU(static)/±1*10 ⁻⁶ AU (dynamic, under given conditions)	
Drift	≤0.4*10 ⁻⁶ AU/h(static)/≤2*10 ⁻⁶ AU/h (dynamic, under given conditions)	
Minimum Detectable Concentration	5*10 ⁻⁹ 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	

Thermal Analysis Instruments
Oxygen Bomb Calorimeter



Technical Parameters:

Model	BK-1A	BK-1A+
Heat Capacity	(14400~14500) J/K	(14000~15000) J/K
Resolution	0.001 K	
Measurement Accuracy	±60J/g	
Display	LED	LCD
Repeatability Error	±0.2% (Grade C)	
Pressure Endurance of Bomb	20 MPa	
Standard Accessory	/	USB port
Consumption	≤150W	
Power Supply	220V, 50Hz	
Packing Size(L*W*H)	760*600*570mm,490*410*300mm	
Gross Weight	45kg,15kg	

Thermal Gravimetric Analyzer



Features:

- * The furnace heating system utilizes double-row precious metal alloy wire.
- * The tray sensor is heat-resistant and corrosion-resistant.
- * The power supply and heat dissipation components are separated from the main unit.
- * The top-opening lid design provides easy operation.
- * The furnace body features a double thermal insulation design for improved linearity.

Technical Parameters:

Model	BK-TGA101
Temperature Range	RT~1150℃
Temperature Resolution	0.01℃
Temperature Fluctuation	±0.1℃
Heating Rate	0.1~100℃/min
Temperature Control Method	PID algorithm control, heating and constant temperature
Constant Temperature Time	0~300min, arbitrarily set
TG Measurement Range	0.01mg~3g, can be expanded to 30g
Weighing System Accuracy	0.01mg
Power Supply	Standard: AC220V 50/60Hz; optional: AC110V 50/60Hz
External Size(L*W*H)	460*512*430mm
Net Weight	26.5kg
Packing Size(L*W*H)	660*590*500mm
Gross Weight	42.1kg