



ION CHROMATOGRAPHY BCHR-104

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Chromatography is a technique that enables the separation, identification, and purification of the components of a mixture for qualitative and quantitative analysis. Our extensive range offers variety of products like Gas, Ion and Portable Ion chromatography products to meet all separation needs, including improved resolution, enhanced sensitivity, faster analysis and consistent performance.

Used in Food Testing, Chemical Industry, Beverage Testing, Drug testing, Forensic Science, Pharmaceutical, Molecular Biology, Medical, Research, Laboratory.

Also known as Laboratory Chromatography.

BCHR-104 ION CHROMATOGRAPHY



Built-in eluent generator, free from configuring eluent, with gradient elution available.

Modular manufacturing process to maintain excellent systemic stability.

Built-in low-pressure degassing technology to eliminate bubble interference for more stability.

Optional intelligent automatic injection system for large sample volumes, which features automatic dilution to save labor and time.

Work across a variety of detectors, to expand the scope of applications of ion chromatography.

SPECIFICATIONS

Model	BCHR-104
Ion Chromatographic Pump	
Maximum Pressure	35 Mpa (PEEK)
Type	High-pressure and low-pulse two-piston tandem advection pump
Pressure Display Accuracy	≤ 0.1 MPa
Flow Range	0.001 ~ 9.999 mL/min
Pressure Pulse	$\leq 0.5\%$
Flow Stability	(0.2-0.5) mL/min $\leq 3\%$; (0.5-1.0) mL/min $\leq 2\%$; > 1.0 mL/min $\leq 2\%$
Conduction Detection System	
Type	Temperature control and bipolar conductivity detector
Cell Volume	$\leq 0.8\mu\text{L}$
Detection Mode	Bipolar conductivity detection
Detection Range	0~50000 $\mu\text{S/cm}$
Detection Resolution	$\leq 0.0020\text{nS/cm}$
Output Voltage	-6000~+6000 mv (adjustable)
Electronic Noise	0.02 nS
Baseline Noise	$\leq 0.05\%$ FS
Baseline Drift	$\leq 3\%$ FS
Operating Temperature Range	Room temperature +5°C~60°C(41~140°F)
Controlling Temperature Accuracy	$\pm 0.01^\circ\text{C}$
Maximum Pressure	10.0 Mpa
Linear Range	$\geq 10^3$
Instrument Linearity	≥ 0.999

Quantitative Repeatability	≤1.0%
Qualitative Repeatability	≤1.0%
Minimum Detectable Concentration	Cl ⁻ ≤ 0.0005 ug/mL; Li ⁺ ≤ 0.001 ug/mL; BrO ₃ ⁻ ≤ 0.001 ug/mL
Flow System	
Six-way Valve	PEEK material, pressure 5000 psi; Independent automatic collecting and flow function.
Built in Eluent Generator	
Eluent Types	KOH/MSA
Eluent Concentration Range	0.1-120 mM
Concentration Increment	0.1 mM
Flow Rate Range	0.1-5.0 mL/min
Maximum Pressure	20 Mpa
Minimum Pressure	5 Mpa
Suppressor	
Type	Self-Regenerating electrolytic micro-membrane suppressor
Maximum Pressure	6.0 Mpa
Dead Volume	<50 µL
Other Specifications	
Dimension (LxWxH)	350x470x650 mm
Net Weight	34 kg
Gross Weight	40 kg
Power	150 W



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