



ION CHROMATOGRAPHY BCHR-102

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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-102 ION CHROMATOGRAPHY



Temperature-control bipolar conductivity detector:

Greater detection range, better precise analysis.

Built-in circulating 3D constant temperature technology:

Temperature stability time is less than 30 mins, ensuring the accuracy and reliability of test data.

The world's leading full-range series of ion chromatographic columns:

High efficiency, large capacity of the columns for detecting ions of varied compositions.

Self-Regenerating Electrolytic Micro-membrane Suppressor:

High pressure resistance, small dead volume, highly responsive to signals.

Able to detect anions and cations at the ppb level.

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

SPECIFICATIONS

Model	BCHR-102
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 $\leq 2\%$
Allowable Deviation of Flow	(0.2-0.5) mL/min $\pm 5\%$; (0.5-1.0) mL/min $\pm 3\%$; > 1.0 mL/min $\pm 2\%$
Numerical-control and Electromagnetic Sample Injector	
Maximum Pressure	35 Mpa
Contact Material of the Rotor	PEEK
Control Mode	By Stepper motor
Power Supply	24 V (DC)
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	0~45000 $\mu\text{S/cm}$
Detection Resolution	$\leq 0.0020\text{nS/cm}$
Output Voltage	-6000~+6000 mv (adjustable)

Electronic Noise	0.02 nS
Baseline Noise	$\leq 0.001 \mu\text{S}/\text{cm}$
Baseline Drift	$\leq 0.02 \mu\text{S}$
Operating Temperature Range	Room temperature +5°C~60°C
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	$\leq 1.0\%$
Qualitative Repeatability	$\leq 0.1\%$
Minimum Detectable Concentration	Cl ⁻ $\leq 0.0005 \mu\text{g}/\text{mL}$; Li ⁺ $\leq 0.001 \mu\text{g}/\text{mL}$; BrO ₃ ⁻ $\leq 0.001 \mu\text{g}/\text{mL}$
Flow System	
Six-way Valve	PEEK material, pressure 5000 psi; Independent automatic collecting and flow function.
Suppressor	
Type	Self-Regenerating electrolytic micro-membrane suppressor
Maximum Pressure	6.0 Mpa
Dead Volume	<50 μL
Other Specifications	
Dimension (LxWxH)	350x470x510 mm
Net Weight	26 kg
Gross Weight	32 kg
Power	150 W



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