



## CHROMATOGRAPHY BCHR-102

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## ION CHROMATOGRAPHY

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 a 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.



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 c

## 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	≤ 0.5%
- Flow Stability	(0.2-0.5) mL/min ≤ 3%; (0.5-1.0) mL/min ≤ 2%; >1.0 mL/min ≤ 2%
- Allowable Deviation of Flow	(0.2-0.5) mL/min ±5%; (0.5-1.0) mL/min ±3%; >1.0 mL/min ±2%
Numerical-control and Electromagnetic Sample Injector	
- Contact Material of the Rotor	PEEK
- Control Mode	By Stepper motor
- Power Supply	24 V (DC)
Conduction Detection System	
- Cell Volume	≤0.8μL
- Detection Mode	Bipolar conductivity detection
- Detection Range	0~45000 μS/cm
- Detection Resolution	≤0.0020nS/cm
- Output Voltage	-6000~+6000 mV (adjustable)
- Electronic Noise	0.02 nS
- Baseline Noise	≤0.001 μS/cm
- Baseline Drift	≤0.02μS
- Operating Temperature Range	Room temperature +5°C~60°C
- Controlling Temperature Accuracy	±0.01°C
- Linear Range	≥10 <sup>3</sup>
- Instrument Linearity	≥0.999
- Quantitative Repeatability	≤1.0%

- Qualitative Repeatability	≤0.1%
- Minimum Detectable Concentration	Cl <sup>-</sup> ≤0.0005 µg/mL; Li <sup>+</sup> ≤0.001 µg/mL; BrO <sub>3</sub> <sup>-</sup> ≤0.001 µg/mL
Flow System	
- Six-way Valve	PEEK material, pressure 5000 psi; Independent automatic collecting and flow function.
Suppressor	
- Dead Volume	< 50 µL
Other Specifications	
- Dimension (LxWxH)	350x470x510 mm
- Net Weight	26 kg
- Gross Weight	32 kg
- Power	150 W
Alt Name	Ion Chromatography

## FEATURES

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## APPLICATIONS

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



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