



## ION CHROMATOGRAPHY BCHR-103

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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.

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### Leakage alarm:

When there is liquid leakage in the pipeline, the liquid leakage detector will send out an alarm sound to remind in time when it detects the liquid, and automatically stop the pump and shut down after 5 minutes if no human intervention.

### Automatic range:

The operation of ion chromatograph does not need to set the range, so it is easy to realize the simultaneous determination of 5ppb-100ppm concentration sample, and the signal is displayed by digital signal  $\mu s / cm$ .

### Gas-liquid separator:

The presence of bubbles in the eluent will increase the baseline noise and reduce the sensitivity. A micro gas-liquid separator is set up in the pipeline between the infusion pump and the eluent bottle to separate the bubbles from the eluent.

### Timing startup preheating:

It usually takes about 1 hour for the ion chromatograph to balance the system from start-up to sample injection analysis. When the user has prepared the eluent (or pure water for eluent generator), you can set the start-up running time of the instrument in advance (24 hours at most), complete the start-up operation, and set all parameters.

### Intelligent maintenance:

Set "intelligent maintenance", the instrument can complete the flow path switch to the pure water path, the flow rate is set to 0.5ml/min, running for 1 hour.

### Mobile phone app:

Mobile app has friendly interface and easy operation.

App monitoring: Put the device in the pocket, no matter where you are, you can turn on the mobile phone to view and control the field device. The mobile app can remotely control the instrument on / off and observe the operation performance index of the instrument.

### Intelligent touch screen:

The large screen displays the operation parameters and status of the instrument, which is convenient for the operator to check the equipment status on site, and to complete the operation of instrument on-off, instrument maintenance, etc.

## SPECIFICATIONS

Model	BCHR-103
Ion Chromatographic Pump	
Maximum Pressure	35 Mpa (PEEK)
Type	High-pressure and low-pulse two-piston tandem advection pump
Pressure Display Accuracy	$\leq 0.1$ MPa

Flow Range	0.001 ~ 9.999 mL/min
Flow Precision	≤ 0.1%
Pressure Pulse	≤ 0.5%
Flow Stability	≤ 0.1%
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	≤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	≤ 0.01μS
Operating Temperature Range	Room temperature +5°C~60°C ± 0.01°C
Controlling Temperature Accuracy	±0.01°C
Maximum Pressure	10.0 Mpa
Linear Range	≥ 10 <sup>3</sup>
Instrument Linearity	≥0.999
Quantitative Repeatability	≤0.5%
Qualitative Repeatability	≤0.5%
Minimum Detectable Concentration	Cl <sup>-</sup> ≤ 0.0002 ug/mL; Li <sup>+</sup> ≤ 0.002 ug/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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