



## PORTABLE ION CHROMATOGRAPHY BCHR-106

## PORTABLE ION CHROMATOGRAPHY BCHR-106

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-106 PORTABLE ION CHROMATOGRAPHY



Powerful data processing system:

Iconic display, customizable interface, integration of instrument control, data analysis and processing, data sharing module for on-site and remote data sharing through 4G network.

Quick chromatographic columns for 5-min rapid detection:

Original quick chromatographic columns for on-site quick detection of anions and cations.

Intelligent flow path cleaning makes easier cleaning:

The flow path is designed with a switching valve for free switch of eluent bottles and pure water bottles.

WI-FI communication, real-time operation:

Being equipped with a tablet/laptop makes real-time operation more flexibly and conveniently.

Upgrade-supported dual detectors (Conductivity Detector and ampere detector) to meet the needs of different industries.

## SPECIFICATIONS

Model	BCHR-106
Ion Chromatographic Pump	
Maximum Pressure	35 Mpa (PEEK)
Type	High-pressure and low-pulse two-piston tandem advection pump
Flow Range	0.001 ~ 9.999 mL/min
Flow Accuracy	±0.5%
Flow Repeatability	RSD≤0.1%
Flow Stability	(0.2-0.5) mL/min ≤ 3%; (0.5-1.0) mL/min ≤ 2%; > 1.0 mL/min ≤ 2%
Numerical-control and Electromagnetic Sample Injector	
Maximum Pressure	35 Mpa
Control Mode	By Stepper motor
Power Supply	24 V (DC)
Column Heater	
Operating Temperature Range	Room temperature +5°C~60°C(41~140°F)
Allowable Deviation of Column Heater's Temperature	± 1°C
Temperature Stability	≤ 0.5°C/h
Conduction Detection System	
Type	Temperature control and bipolar conductivity detector
Cell Volume	≤0.8μL

Detection Mode	Bipolar conductivity detection
Detection Range	0~45000 $\mu$ S/cm (adjustable)
Detection Resolution	$\leq 0.0020$ nS/cm
Output Voltage	-6000~+6000 mv (adjustable)
Baseline Noise	$\leq 0.5\%$ FS
Baseline Drift	$\leq 20\%$ FS/30 min
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
Instrument Linearity	$\geq 0.999$
Quantitative Repeatability	$\leq 0.5\%$
Qualitative Repeatability	$\leq 2\%$
Minimum Detectable Concentration	Cl- $\leq 0.005$ ug/mL; Li+ $\leq 0.001$ ug/mL
Flow System	
Six-way Valve	PEEK material, pressure 5000 psi; Independent automatic collecting and flow function.
Panel Computer	
Display Screen	12.3 inch
Internal Memory	2 G
Weight	786 g
Maximum Pressure	20 Mpa
Minimum Pressure	5 Mpa
Suppressor	
Maximum Pressure	6.0 Mpa
Dead Volume	<30 $\mu$ L
Other Specifications	
Dimension (LxWxH)	330x220x310 mm
Net Weight	8 kg
Gross Weight	11 kg
Battery Capacity	5000 mAh
Power	150 W



**Biolab Scientific Ltd.**

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada

Email: [info@biolabscientific.com](mailto:info@biolabscientific.com) | Website: [www.biolabscientific.com](http://www.biolabscientific.com)