



## CHROMATOGRAPHY BHD1E1 (BCHR-104)

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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.



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	BHD1E1
Old 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	$\leq 0.1$ 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	
- 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	$\pm 0.01^\circ\text{C}$
- Linear Range	$\geq 10^3$
- Instrument Linearity	$\geq 0.999$
- Quantitative Repeatability	$\leq 1.0\%$
- Qualitative Repeatability	$\leq 1.0\%$
- Minimum Detectable Concentration	$\text{Cl}^- \leq 0.0005 \mu\text{g/mL}$ ; $\text{Li}^+ \leq 0.001 \mu\text{g/mL}$ ; $\text{BrO}_3^- \leq 0.001 \mu\text{g/mL}$
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
- Minimum Pressure	5 MPa
Suppressor	
- Dead Volume	< 50 µL
Other Specifications	
- Dimension (LxWxH)	350x470x650 mm
- Net Weight	34 kg
- Gross Weight	40 kg
- Power	150 W
Alt Name	Ion Chromatography

## APPLICATIONS

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



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