



ION CHROMATOGRAPHY BCHR-105

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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-105 ION CHROMATOGRAPHY



Cation and anion dual-channel system, with both channels operating independently without disturbing each other and cations and anions being detected simultaneously.

Eluent thermal buffer system in which eluent enters into the columns after preheated, to avoid bubbles generated from rapid heating.

Intelligent flow path mode, one-key operation to complete flow path switch, automatic cleaning to save time and labor.

Built-in low-pressure degassing technology to eliminate bubble interference for more stability.

The world's leading full-range series of chromatographic columns able to detect of ions with varied compositions.

Excellent performance to support all your applications. Ion Chromatographic Pump: Type - High-pressure and low-pulse two-piston tandem advection pump

Numerical-control and Electromagnetic Sample Injector: Contact Material of the Rotor - PEEK

Numerical-control and Electromagnetic Sample Injector: Control Mode - By Stepper motor

Conduction Detection System: Type - Temperature control and bipolar conductivity detector

SPECIFICATIONS

Model	BCHR-105
Ion Chromatographic Pump	
Pressure Display Accuracy	≤ 0.1 MPa
Maximum Pressure	35 Mpa (PEEK)
Flow Range	0.001 ~ 9.999 mL/min
Resolution of Flow Rate	0.001 ml
Flow Precision	$< 0.1\%$
Flow Accuracy	$< 0.1\%$
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 $\leq 2\%$
Numerical-control and Electromagnetic Sample Injector	
Maximum Pressure	35 Mpa
Power Supply	24 V (DC)
Column Heater	
Operating Temperature Range	+20°C~60°C (68~140°F)
Controlling Temperature Accuracy	$\pm 0.01^\circ\text{C}$
Allowable Deviation of Column Heater's Temperature	$\pm 1^\circ\text{C}$

Temperature Stability	$\leq 0.05^{\circ}\text{C/h}$
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	$\leq 0.001 \mu\text{S/cm}$
Baseline Drift	$\leq 0.02\mu\text{S}$
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
Linear Range	$\geq 10^3$
Instrument Linearity	≥ 0.999
Quantitative Repeatability	$\leq 1.0\%$
Qualitative Repeatability	$\leq 1.0\%$
Thermal Buffer System of Eluent	
Thermal Buffer System of Eluent	Before enter into the column,the eluent is preheated. By the way,can avoid the rapid heating up and the bubbles to generate,the baseline is more stable, effectively shorten the start-up balance time and improve the analysis efficiency and effect.
Temperature Range	25~40°C (77~104°F)
Built-in and Low-pressure Degassing Device	
Vacuum Degree	-70 kPa
Maximum Flow Rate	10 mL/min
Internal Volume	30 μL
Degassing Efficiency	10 mL/min 90%
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
Maximum Pressure	20 Mpa
Minimum Pressure	5 Mpa
Suppressor	
Type	Self-Regenerating electrolytic micro-membrane suppressor
Maximum Pressure	6.0 Mpa
Dead Volume	<50 μL
Other Specifications	
Dimension (LxWxH)	500x500x760 mm
Net Weight	48 kg
Gross Weight	73 kg
Power	350 W



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