



CHROMATOGRAPHY BCHR-101

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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 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.

Auto-range Conductivity Detector:

It can directly detect the signal from ppb to ppm without adjusting the range. Only one conductivity detector can detect anions and cations.

Observatory intelligent workstation:

SPECIFICATIONS

| Model | BCHR-101 |
|--|--|
| Ion Chromatographic Pump | |
| - Maximum Pressure | 42 MPa (Stainless steel) |
| - 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 Fluctuation | ≤ 0.5% |
| - Flow Stability | (0.2-0.5) mL/min ≤ 2%; (0.5-1.0) mL/min ≤ 1%; >1.0 mL/min ≤ 1% |
| Manual Sample Injector | |
| - Contact Material of the Rotor | PEEK |
| - Contact Material of Medium | PEEK/Ceramics |
| Column Heater | |
| - Operating Temperature Range | 20°C~60°C (68~140°F) |
| - Controlling Temperature Accuracy | ±0.01°C |
| - Allowable Deviation of Column Heater's Temperature | ±1°C |
| - Temperature Stability | ≤0.05°C/h |
| Conduction Detection System | |
| - Cell Volume | ≤0.8μL |
| - Detection Range | 0~35000 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 |
| - Temperature Compensation | 1.7%/°C |
| - Linear Range | ≥10 ³ |
| - Instrument Linearity | ≥0.999 |

| | |
|----------------------------------|---|
| - Quantitative Repeatability | ≤1.0% |
| Qualitative Repeatability | ≤0.5% |
| Minimum Detectable Concentration | Cl ⁻ ≤0.0005 µg/mL; Li ⁺ ≤0.001 µg/mL; BrO ₃ ⁻ ≤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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Observatory intelligent workstation:

Integrated control, intelligent start-up, shutdown and maintenance functions. Compatible with a variety of instruments.

APPLICATIONS

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



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