

# ION CHROMATOGRAPHY CHR16-035I



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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.

## CHR16-035I ION CHROMATOGRAPHY

Temperature-control bipolar conductivity detector:

Greater detection range, better precise analysis.

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.

Able to detect anions and cations at the ppb level.

Work across a variety of detectors, to expand the scope of applications of ion chromatography.



## SPECIFICATIONS

| Model   | CHR16-035I  |
|---|---|
| Ion Chromatographic Pump                              |   |
| Type  | High-pressure and low-pulse two-piston tandem advection pump                        |
| Maximum Pressure                                      | 35 Mpa (PEEK)   |
| 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 $\leq 2\%$ |
| Allowable Deviation of Flow                           | (0.2-0.5) mL/min $\pm 5\%$ ; (0.5-1.0) mL/min $\pm 3\%$ ; > 1.0 mL/min $\pm 2\%$    |
| 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   | $\leq 0.8\mu\text{L}$   |
| Detection Mode  | Bipolar conductivity detection  |
| Detection Range                                       | 0~45000 $\mu\text{S/cm}$  |

|                                  |   |
|----------------------------------|---|
| Detection Resolution             | $\leq 0.0020 \text{ nS/cm}$   |
| Output Voltage                   | -6000~+6000 mv (adjustable)   |
| Electronic Noise                 | 0.02 nS   |
| Baseline Noise                   | $\leq 0.001 \text{ } \mu\text{S/cm}$  |
| Baseline Drift                   | $\leq 0.02 \mu\text{S}$   |
| Operating Temperature Range      | Room temperature +5°C~60°C  |
| Controlling Temperature Accuracy | $\pm 0.01^\circ\text{C}$  |
| Maximum Pressure                 | 10.0 Mpa  |
| Linear Range                     | $\geq 10^3$   |
| Instrument Linearity             | $\geq 0.999$  |
| Quantitative Repeatability       | $\leq 1.0\%$  |
| Qualitative Repeatability        | $\leq 0.1\%$  |
| Minimum Detectable Concentration | Cl <sup>-</sup> $\leq 0.0005 \text{ } \mu\text{g/mL}$ ; Li <sup>+</sup> $\leq 0.001 \text{ } \mu\text{g/mL}$ ; BrO <sub>3</sub> <sup>-</sup> $\leq 0.001 \text{ } \mu\text{g/mL}$ |
| 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 $\mu\text{L}$   |
| Other Specifications             |   |
| Dimension (LxWxH)                | 350x470x510 mm  |
| Net Weight                       | 26 kg   |
| Gross Weight                     | 32 kg   |
| Power                            | 150 W   |



**Biozef**

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