

DW-CIC-D120 Ion Chromatograph

DW-CIC-D120 ion chromatograph is a new modular design of the high stability of ion chromatograph, combining Drawell independent research and development core technology products and foreign excellent machining process equal to one, not only can be configured conductance detector, combined with powerful chromatography workstation and precision circuit control system, the DW-CIC-D120 ion chromatograph can also configure the UV-Vis detector implementating related to environment, food, chemical, geological, and many other areas of conventional ion of Yin and Yang, sugar, amino acids, other small molecule organic acids, cyanide, etc.

TECHNOLOGY INDEX

● Ion Chromatographic Pump

Pressure range: 0~42 MPa

Volume of flow range: 0.001~9.999 mL/min

Pressure Display accuracy: ≤ 0.1 Mpa

Volume of flow accuracy (setting error): $RSD \leq 0.1\%$

Over pressure and leak protection: It will give an alarm and stop working in these situation.

● Digital Temperature-control detection system

1. Conductivity Detector

Structure: five-polar ring passively and 316 stainless steel conductance detector

Detection Mode: Double conductivity detection

Conductance cell size: $\leq 0.8\mu\text{l}$

Output voltage: -5000~5000 mV (to regulate)

Measure range: 0~100000 $\mu\text{S}/\text{cm}$ (10 level to choose)

Resolution : ≤ 0.0020 ns

Conductance cell temperature: 5~60°C(to regulate)

Constant temperature accuracy: $\pm 0.01^\circ\text{C}$

Baseline noise: $\leq 0.1\%FS$

Baseline drift: $\leq 0.3\%FS$

2、Flow System

The whole plastic pipeline: made of PEEK materials

Six-way valve: Rheodyne electromagnetic six-way valve made in America, compression resistance of 7000 psi. Collect signals automatically.

3、Analytic Capability

For high capacity anion column, pH 0~14, compatible organic solvent, etc. can be analyzed at the same time with one injection.

For high capacity cation column, lysine, Choline chloride can be separated and analyzed.

Different types of detectors can detect several transition metallic ions, heavy metallic ions and special ions.

qualitative repeatability: $\leq 0.5\%$ (Cl^- , Na^+)

quantitative repeatability: $\leq 1.0\%$ (Cl^- , Na^+)

Linear range: $\geq 10^3$

Minimum concentration of detection: $\text{Cl}^- \leq 0.0005 \text{ ug/ml}$, $\text{BrO}_3^- \leq 0.001 \text{ ug/ml}$,
 $\text{Li}^+ \leq 0.001 \text{ ug/ml}$