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# DW-CIC-D300 Ion Chromatography

## Major standards

### I Ion Chromatographic Pump

Type: High - pressure low - pulse double - plunger series pump

Pressure range: 0~42 MPa

Volume of flow range: 0.001~9.999 mL/min

Pressure accuracy:  $\leq 0.1$  Mpa

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

### II Digital Temperature-control detection system

#### 1. Conductivity Detector

Structure: Temperature - controlled bipolar conductivity detector  
Detection Mode: Double conductivity detection

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

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

Measure range: 0~30000  $\mu\text{S/cm}$  (10 level to choose)

Resolution :  $\leq 0.025$  ns

Conductance cell temperature: 5~50 °C (to regulate)

Constant temperature accuracy:  $\pm 0.01$  °C

Baseline noise:  $\leq 0.6\%$ FS

Baseline drift:  $\leq 2.0\%$ FS

Qualitative repeatability:  $\leq 1\%$

Quantitative repeatability:  $\leq 1\%$

### III 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.

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#### **IV Analytic Capability**

For high capacity anion column, pH 0~14, compatible organic solvent,  $F^-$ ,  $Cl^-$ ,  $NO_2^-$ ,  $PO_4^{3-}$ ,  $Br^-$ ,  $NO_3^-$ ,  $SO_4^{2-}$ ,  $ClO_2^-$ ,  $BrO_3^-$ ,  $ClO_3^-$  etc. can be analyzed at the same time with one injection.

For high capacity cation column, lycine,  $Li^+$ ,  $Na^+$ ,  $NH_4^+$ ,  $K^+$ ,  $Mg^{2+}$ ,  $Ca^{2+}$ ,  $Sr^{2+}$ ,  $Ba^{2+}$ , Choline chloride can be separated and analyzed.

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

Analyse repeatability:  $\leq 1.0\%$  (see  $SO_4^{2-}$ ,  $Na^+$ )

Linear range:  $\geq 10^3$

Minimum concentration of detection:  $\leq 0.1$  ppb(see  $Cl^-$ );  $\leq 5$  ppb(see  $Na^+$ )