

## OIC-900 Ion Chromatography



### OIC-900 Analytical Series

- analyze and detect GB/T 5750-2006, about the testing of inorganic anions F<sup>-</sup>、Cl<sup>-</sup>、Br<sup>-</sup>、NO<sub>2</sub><sup>-</sup>、PO<sub>4</sub><sup>3-</sup>、NO<sub>3</sub><sup>-</sup>、SO<sub>4</sub><sup>2-</sup> in 《testing ways for standard drinking water》
- analyze and detect GB/T 5750-2006, about the disinfection by-products included chlorite, chlorate, bromate in 《testing ways for standard drinking water》
- Products have integrative appearance design (patent number: ZL2016304127158)

### System Highlights

1. Intuitive observation with 5.0-inch high-brightness LCD, real-time display of parameters
2. Two-pole conductivity detector with temperature compensation and high sensitivity, suitable for laboratories with high sensitivity requirements;
3. Fully compatible full PEEK flow paths are acid & alkali resistant and corrosion-free
4. Liquid level warning and self-processing system can automatically monitor low level of eluent and high level of waste liquid, enable automatic pump stop and power off under abnormal conditions, effectively protect the suppressor and make the system safe
5. More efficient patented constant current source device for current adjustment according to different conditions
6. Self-regenerating membrane suppressor with low background and high capacity, can be a perfect substitute for imported suppressors
7. Software has "one button off" function
8. Built-in eluent preheating system quickly and efficiently balances the eluent system
9. Imported manual six-port valve, leak proof up to 100,000 times of repeated switches
10. Self-innovated embedded column heater adopts imported grade A+ platinum resistance and enables more accurate temperature measurement

### Electroanalytical membrane suppressor

1. On-line electrolysis of water produces suppression, continuous self-regeneration
2. Small dead volume: <90  $\mu$ L
3. Low suppression background: <1.0  $\mu$ S/cm
4. Types of suppressor: anion and cation
5. Classes of suppressor: electrochemical self-regeneration, chemical suppressor, and ion pair suppressor
6. Suppression capacity: >100  $\mu$ eq/min

### Six-port injection valve

1. Patented continuous flow (MBB) structural design maintains flow continuity during sampling and injection switching, greatly reduced interference of transient pressure shock on the system

2. 30-degree wide port facilitates easy connection to connectors
3. Single point pressure regulation reduces friction between the rotor seal and the stator and extends lifetime
4. Built-in position sensing switch offers reproducible start signal for the system

Withstand pressure	35 MPa
Connection pipe	1/16"
Flow path diameter	0.5 mm (0.02" )
Screw specification	No.10-32UNF
Sample loop	25 $\mu$ L
Injection mark	Built-in type

#### Intelligent micro high-pressure constant-current pump

1. Pump withstand pressure: 42 MPa (6000 psi)
2. Maximum operating pressure: 5000 psi
3. Flow range: 0.001-9.999 mL/min
4. Flow accuracy: RSD $\leq$ 0.1%
5. Flow repeatability: RSD $\leq$ 0.01%
6. High-performance corrosion-resistant seal rings are suitable for various eluent systems, effectively prevent liquid leakage, and prolong lifetime

#### Patented embedded column oven

1. Imported grade A+ platinum resistance
2. Temperature control range: room temperature +5 °C-60 °C
3. Temperature control accuracy:  $\pm$ 0.01 °C

#### Electrical conductivity detector

1. Material: 316 stainless steel needle electrodes
2. Cell volume:  $\leq$ 0.8  $\mu$ L
3. Temperature control range: room temperature +5 °C-60 °C
4. Temperature control accuracy:  $\pm$ 0.01 °C
5. Baseline noise:  $\leq$ 0.2% FS
6. Baseline drift:  $\leq$ 1% FS
7. Quantitative repeatability: RSD $\leq$ 1.0%
8. Qualitative repeatability: RSD $\leq$ 0.2%
9. Detection limit: CI $\leq$ 0.0006  $\mu$ g/mL

#### Chromatography workstation

1. Unique spectrum peak identification technology basically realizes automatic processing of peaking, baseline calibration and overlapping peak segmentation
2. Illustrated Chinese/English analysis report can be customized and directly exported to Word for printing
3. Data can be exported to Excel for calculations or customized report printing
4. Batch processing of multiple chromatogram at one time