



OIC-600 Ion Chromatograph



- analyze and detect GB/T 5750-2006, about the testing of inorganic anions F⁻、Cl⁻、Br⁻、NO₂⁻、PO₄³⁻、NO₃⁻、SO₄²⁻ 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)

Features

1. 5.0-inch-high-brightness touch screen, real-time monitoring baseline, conductivity and pump flow, intuitively displays running status.
2. The double plunger series flat current pump system, a pressure resistance of up to 5000psi, high precision infusion, wide range of flow velocity, stable flow, long continuous running time and low maintenance cost.
3. Adopt independently developed five-pole anti-interference electrical conductivity detector, effectively screen surrounding interference signals, avoid abnormal fluctuation of baseline, and reduce noise. It has the function of auto temperature compensation for detector, temperature control precision $\leq 0.2^{\circ}\text{C}$, eliminate great baseline drift caused by environmental temperature changes
4. Adopt 12-step signal amplifying mode. Choose proper detection stage according to samples, avoid

frequent dilution for unknown samples, reduce the difficulty and workload, improve test precision and efficiency.

5. Full PEEK flow path, acid and alkali corrosion resistance, high pressure resistance, 100% compatible with organic solvents, meet the requirements of various anion and cation eluent systems, stable and durable.
6. The patented constant current source device can accurately adjust the working current of the suppressor according to the actual concentration of the eluent. The control range is 0-200mA, which greatly improves the overall performance of the instrument, reduces noise, and extends the life of the suppressor
7. Continuous automatic regeneration suppressor, capacity greater than 100 μ eq, can inhibit up to 80mmol sodium hydroxide eluent, online electrolytic suppression, continuous self-regeneration, no need to replace the suppression glue and regeneration liquid and other cumbersome operations, the suppression effect is stronger and the repeatability is more Well, it can perfectly replace imported suppressor
8. The independently developed ion chromatography control system OIC series, the operation is more intelligent and simpler. One-key start: set and save the parameters with one-key start, simplify the start-up steps, achieve intelligent start-up, and improve work efficiency.
 One-key shutdown: one-button automatic shutdown, to avoid the tedious shutdown operation, automatically execute the scientific shutdown process, improve work efficiency.
 Timing shutdown: according to the experimental needs to achieve automatic shutdown timing (can work with eluent generator to achieve 24 hours of uninterrupted work).
9. Suppressor protection system: suppressor automatic protection function, to avoid the risk of suppressor dry burning, extend the service life, effectively avoid the pipeline into the air bubbles, eluent fluid breakage, pump failure, sudden circuit interruption and recovery and some human errors
 Dry burn damage to the suppressor caused by operation and other reasons, the use of more assured;
10. Optional one-key anion and cation automatic switching device is realized to realize one-key intelligent switching of the anion and cation system of the ion chromatograph, without manually disassembling the flow path, greatly saving the experimental operation time, and avoiding the risk of frequent disassembly and assembly leakage. Simple and efficient.

Double Plunger Series Advection Pump

1. Pump withstand pressure: 35MPa(5000psi) ;
2. Maximum operating pressure: 4000psi;

3. Flow range: 0.001-9.999mL/min;
4. Flow accuracy: $RSD \leq 0.1\%$;
5. Flow repeatability: $RSD \leq 0.01\%$;
6. Adopt high-performance corrosion-resistant high-pressure sealing ring and quartz plunger rod imported from Japan, adapt to various eluent systems, effectively prevent leakage and prolong life.

Anion/Cation Automatic Regeneration Membrane Suppressor

1. Continuous self-regeneration, no need for additional acid and water
2. Dead volume < 90 μ L;
3. Suppression capacity > 100 μ eq, can perfectly replace imported suppressor;
4. Suppression background: <1.0 μ S/cm;

Electrical Conductivity Detector

1. Material: five-pole pulse ring passivated 316 stainless steel
2. Output range: -2000~2000mv (12-step adjustment) ;
3. Temperature compensation: room temperature~50°C, accuracy $\pm 0.2^\circ\text{C}$;
4. Baseline drift: $\leq 5\%$ FS;
5. Qualitative repeatability: 0.2%;
6. Cell volume: $\leq 1.0\mu\text{L}$;
7. Baseline noise: $\leq 0.3\%$ FS;
8. Quantitative repeatability: 2.0%;

9. Minimum detection concentration: $Cl \leq 0.006 \mu\text{g/ml}$.

Chromatography Workstation

1. Full English operation control software, and provide all English data reports
2. Unique spectrum peak intelligent identification technology, which basically realizes automatic processing of peak judgment, baseline correction, and overlapping peak segmentation; freely formulate Chinese and English analysis reports with graphics and text, and directly generate and print them in Word
3. The results can be exported to spreadsheets such as Excel for secondary calculations or printing of custom format reports;
4. Multiple spectra can be processed in batches at once.
5. Permissions can be set in stages to ensure data accuracy