



ChroZen 2160 Ion Chromatograph

Major Features

- Online Hydroxide & MSA Eluent Generation
- Real-Time Suppressor & Column Health Monitoring
- Superior Baseline Stability for Gradient IC
- Advanced Leak & Pressure Protection
- Wide Dynamic Range Detection from ppb-to-ppm Range
- Bubble-Free Analysis with Gas-Liquid Separation
- High-Precision Autosampler
- Scheduled Start-Up & Rapid System Readiness
- Integrated Vacuum Degassing Technology

Main System

Built-in Eluent Generator

- Eluent Types: KOH/NaOH/LiOH/MSA
- Eluent Concentration Range: 0.1-100mM
- Concentration Increment: 0.1mM
- Flow Rate Range: 0.1-5.0mL/min
- Maximum Pressure: 35MPa
- Minimum Pressure: 5MPa
- Accuracy of Gradient: 0.15%

Vacuum Degasser

- Vacuum degree: -70kPa
- Internal Volume: 300 μ L
- Maximum Flow Rate: 10mL/min
- Degassing Efficiency: 1.0mL/min 90%
- Degassing Volume: 7.5mL

Pump

- Type: High-pressure and low-pulse two-piston tandem advection pump
- Maximum Pressure: 42MPa
- Flow Rate Range: 0.001~12mL/min
- Pressure Ripple: $\leq 0.5\%$
- Flow Precision: $\leq 0.1\%$
- Flow Accuracy: $\leq 0.1\%$
- External Diameter of the Tube: 1/16"

Valve

- Contact Material of the Rotor: PEEK
- Control Mode: By Stepper motor
- Power Supply: 24V (DC)

Column Heater

- Operating Temperature Range: 5 to 85 °C
- Controlling Temperature Accuracy: $\pm 0.01^{\circ}\text{C}$

- Temperature Stability: $\leq 0.05^{\circ}\text{C/h}$ (2, 3, 4 and 5 mm I.D.)
- Columns Supported: Maximum length 250 mm analytical column with 50 mm guard column.

Suppressor

- Type: Self-Regeneration electrolytic micro-membrane suppressor
- Maximum Pressure: 6.0MPa
- Void Volume $<40\mu\text{L}$ (4mm)
 $<15\mu\text{L}$ (2mm)

Conductivity Detector

- Type: Auto-range conductivity detector
- Cell Volume: $\leq 0.4\mu\text{L}$
- Detection Range: $0\sim 50000\mu\text{S/cm}$
- Resolution: $\leq 0.0020\text{nS/cm}$
- Output Voltage: $-6000\sim +6000\text{mv}$ (adjustable)
- Electronic Noise: 0.02nS
- Baseline Noise: $\leq 0.0002\mu\text{S/cm}$
- Baseline Drift: $\leq 0.001\mu\text{S}$
- Temperature Range: Ambient $+5^{\circ}\text{C}\sim 60^{\circ}\text{C}$
- Controlling Temperature Accuracy: $\pm 0.01^{\circ}\text{C}$
- Temperature Compensation: $1.7\text{ }^{\circ}\text{C}$
- Maximum Pressure: 10.0MPa
- Instrument Linearity: ≥ 0.999
- Minimum Detectable Concentration: $\text{Cl}^{-}\leq 0.0001\mu\text{g/mL}$
 $\text{Li}^{+}\leq 0.0001\mu\text{g/mL}$

Others

- Quantitative Repeatability: $\leq 0.2\%$
- Qualitative Repeatability: $\leq 0.5\%$
- Leakage Sensor Configured as Standard
- Gas-Liquid Separator: Configured as Standard
- Flow Path: PEEK Material
(Chemically inert, metal-free PEEK flow paths, compatible with aqueous eluents of pH 0–14 and reversed-phase solvents)
- Power Supply: 150W

- Dimension (W x D x H): 360 x 500 x 560 mm
- Net Weight: 31 Kg

Warranty

- 3-years from installation date
(Subject to installation being completed within one month of shipment.)