



ChroZen 2120 Ion Chromatograph

Major Features

- Comprehensive Safety Monitoring & Protection
- Real-Time Leak, Pressure & Eluent Alerts
- Suppressor & Consumables Management
- Enhanced System Stability & Reliability
- Bubble-Free Analysis with Gas-Liquid Separator
- High Capacity Autosampler Integration
- Scheduled Auto Start-Up & Warm-Up
- Intelligent Baseline Correction & Noise Reduction
- Wide Dynamic Range Detection (ppb to ppm)

Main System

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 μL (4mm)
<15 μL (2mm)

Conductivity Detector

- Type: Auto-range conductivity detector
- Cell Volume: $\leq 0.4\mu\text{L}$
- Detection Range: 0~50000 $\mu\text{S/cm}$
- Resolution: $\leq 0.0020\text{nS/cm}$
- Output Voltage: -6000~+6000mv(adjustable)

- Electronic Noise: 0.02nS
- Baseline Noise: $\leq 0.001\mu\text{S}/\text{cm}$
- Baseline Drift: $\leq 0.01\mu\text{S}$
- 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 %/ $^{\circ}\text{C}$
- Maximum Pressure: 10.0MPa
- Instrument Linearity: ≥ 0.999
- Minimum Detectable Concentration: $\text{Cl}^{-}\leq 0.0005\mu\text{g}/\text{mL}$
 $\text{Li}^{+}\leq 0.0005\mu\text{g}/\text{mL}$

Others

- Quantitative Repeatability: $\leq 0.5\%$
- 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: 30 Kg

Injection

ChroZen 2018S IC Autosampler Single Channel (Standard)

- General
 - Automatic Sample Dilution
 - Full-Loop, Partial-Loop & Micro Injection Modes
 - Dual Independent Injection Channels
 - Independent Trigger & Data Acquisition
 - Needle Wash Bottle Level Monitoring
 - Sample Bottle Detection & Alarm
 - Needle Protection Technology
 - Real-Time Operation Status Indicators

- Vials : 120 vial (60*60) , 2ml (Standard)
48 vial (24*24) , 5ml (Optional)
30 vial (15*15) , 7ml (Optional)
30 vial (15*15) , 10ml (Optional)
- Automatic dilution ratio: 1-10000
- Syringe pump: 250 uL
- Maximum injection volume: 1000 uL
- Minimum injection volume: 1uL
- Injection mode: Full loop / partial / micro injection
- Injection accuracy: $\pm 1\%$
- Injection precision: $\leq 0.5\%$
- Carry-over: $\leq 0.001\%$
- Dimensions(WxDXH): 360 x 520 x 300 mm
- Weight(kg): 20Kg
- Power supply: AC110-240V,50/60Hz,150W
- Fuse: 5*20mm,T6.3AL,AC250V

Warranty

- 3-years from installation date (Main IC System)
 - 1-year from installation date (Autosampler)
- (Subject to installation being completed within one month of shipment.)