

ION CHROMATOGRAPH - TORON-IC™ 260



Ion Chromatograph - Toron-IC™ 260

Toron-IC™ 260 is a high-performance, dual-channel system designed to elevate laboratory efficiency through the simultaneous analysis of anions and cations. By enabling parallel detection, this advanced ion chromatograph significantly increases sample throughput while optimizing analysis time and conserving valuable bench space.

Built for reliability and versatility, the system integrates high-pressure pumping technology with intelligent consumable monitoring and flexible detector options. Its compact footprint, combined with robust safety features and an intuitive interface, makes the Toron-IC™ 260 an accessible and powerful solution for both experienced analysts and laboratories new to ion chromatography technology.

APPLICATIONS

Ion Chromatograph - Toron-IC™ 260 Applications

The Toron-IC™ 260 Ion Chromatograph is a vital instrument for diverse analytical applications across key industries:

- **Environmental Monitoring:** Facilitates the comprehensive determination of inorganic anions and cations in drinking water, wastewater, and surface water ecosystems.
- **Food & Beverage Safety:** Ensures product quality through the precise analysis of preservatives, additives, organic acids, and inorganic ions.
- **Pharmaceutical & Biopharmaceutical QC:** Supports critical quality assurance workflows, including counter-ion analysis, raw material verification, and impurity profiling.
- **Chemical & Petrochemical:** Enables strict quality control of process chemicals and reagents used in industrial production.
- **Power & Semiconductor:** Optimized for the detection of ultra-trace ions in high-purity water and process chemicals, meeting the stringent standards of the electronics and energy sectors.

- Academic & Research: Provides the flexibility and precision needed for advanced method development and complex ion chromatography research.



FEATURES

Key Features of the SHINE Toron-IC Dual-Channel Ion Chromatograph

- Enhanced Laboratory Productivity with Dual-Channel Design: Simultaneous analysis of both anions and cations streamlines workflows and boosts efficiency.
- Superior Flow Stability and Reproducibility: The high-pressure, low-pulse pumping system, featuring a two-piston tandem pump, ensures accurate gradient formation and consistent results.
- Intelligent System Management: Real-time monitoring of key consumables (columns, suppressors) and overall system status facilitates proactive maintenance and minimizes downtime.
- Precise Temperature Control: The column thermostat offers both heating and cooling capabilities, guaranteeing excellent retention time and peak shape stability.
- Comprehensive Safety Protocols: Built-in alarm systems for leakage, low pressure, and high pressure protect both the instrument and the operator.
- Versatile Sample Introduction: The system supports a range of injection methods, including manual injection, autosampler use, and six-port valve switching for maximum flexibility.
- Broad Detector Compatibility: Beyond standard conductivity detection, the Toron-IC is designed to integrate seamlessly with various detectors, such as UV, DAD, ECD, ICP-MS, AFS, and MS.
- Space-Saving Design: Its optimized, compact footprint maximizes valuable laboratory bench space without compromising analytical performance.

TECHNICAL SPECIFICATIONS

Ion Chromatograph - Toron-IC™ 260 Technical Specifications

Parameter	Specification
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Instrument Type	Ion Chromatograph
Model	Toron-IC™ 260
System Configuration	Dual-channel (anion & cation)
Eluent Types	KOH, NaOH, LIOH, MSA
Eluent Concentration Range	0.1–100 mM
Flow Rate Range	0.1–5.0 mL/min
Maximum System Pressure	35 MPa
Pump Type	High-pressure, low-pulse two-piston tandem pump
Maximum Pump Pressure	42 MPa
Flow Precision / Accuracy	≤ 0.1%
Column Thermostat Range	15–80 °C
Temperature Accuracy	±0.1 °C
Suppressor Type	Self-regenerating electrolytic micro-membrane
Conductivity Detector	Auto-range conductivity detector
Detection Range	0–50,000 µS/cm
Minimum Detectable Concentration	Cl ⁻ ≤ 0.0004 µg/mL; Li ⁺ ≤ 0.0001 µg/mL
Linearity	≥ 0.999
Quantitative Repeatability	≤ 0.5%
Power Consumption	320 W
Dimensions (W × D × H)	422 × 500 × 641 mm
Weight	42 kg



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