

ION CHROMATOGRAPH - TORON-IC™ 150+



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Ion Chromatograph - Toron-IC™ 150+ is a high-performance analytical system designed for precise, stable, and automated ionic analysis in demanding laboratory environments. Engineered around advanced ion chromatography technology, the Toron-IC 150+ delivers reliable separation and quantification of anions and cations across a wide concentration range, from trace-level ppb to high-level ppm samples.

Built with chemically inert, metal-free flow paths and intelligent system protection, this Ion Chromatograph ensures low background noise, excellent reproducibility, and long-term operational stability. Integrated automation features, smart diagnostics, and a compact footprint make the Toron-IC™ 150+ well suited for both routine testing and advanced analytical workflows.

APPLICATIONS

Ion Chromatograph - Toron-IC™ 150+ Applications



The Ion Chromatograph – Toron-IC™ 150+ is a versatile instrument with wide-ranging applications for ionic analysis across several key sectors:

- **Environmental Monitoring:** Essential for determining anions and cations in various water sources, including drinking water, wastewater, surface water, and general environmental samples.
- **Food and Beverage Quality:** Used to measure inorganic ions, organic acids, preservatives, and additives, ensuring product safety and compliance.
- **Industrial Purity Control (Pharmaceutical & Chemical):** Vital for analyzing finished products, intermediates, and raw materials to maintain ionic purity standards.
- **Power and Electronics:** Critical for detecting trace ionic contaminants, which is necessary to ensure system reliability and optimal component performance.
- **Research and Development:** Supports scientific research and method development through high-precision quantification and ion separation.



FEATURES

Ion Chromatograph - Toron-IC™ 150+ Key Features

- **Intelligent Leakage Alarm System:** Automatically detects liquid leaks, activates an audible alert, and safely shuts down the pump to safeguard the instrument and lab environment.
- **Automatic Signal Range Selection:** Enables accurate analysis across a wide range, from ppb to ppm concentrations, without requiring manual adjustment.
- **Integrated Gas-Liquid Separator:** Minimizes baseline noise and improves detection sensitivity by efficiently removing bubbles from the eluent flow path.
- **Timed Startup Preheating:** Allows users to pre-schedule system startup and equilibration, leading to faster readiness and increased workflow efficiency.
- **Intelligent Maintenance Mode:** Automates the cleaning of the flow path with pure water, reducing the need for manual intervention and prolonging component life.
- **Mobile App Control Capability:** Offers remote monitoring and basic operational control via a mobile interface for greater flexibility.
- **Large Intelligent Touchscreen Interface:** Provides a centralized control point for real-time system status, parameter management, and maintenance access.

Durable and Contamination-Free Construction

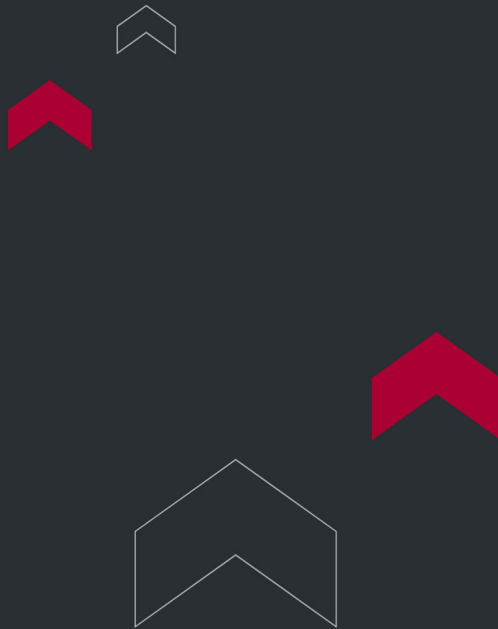
- **Chemically Inert PEEK Flow Path:** The metal-free construction guarantees full compatibility with aggressive eluents and eliminates the risk of sample contamination.

TECHNICAL SPECIFICATIONS

Ion Chromatograph - Toron-IC™ 150+ Technical Specifications

Parameter	Specification
Model	Toron-IC™ 150+
Instrument Type	Ion Chromatograph
Flow Path Material	Chemically inert, metal-free PEEK
pH Compatibility	pH 0-14
Pump Type	High-pressure, low-pulse dual-piston pump
Maximum Pump Pressure	42 MPa
Flow Rate Range	0.001 - 12 mL/min
Flow Accuracy	≤ ±0.1%
Flow Precision	≤ ±0.1%
Pressure Ripple	≤ 0.5%
Column Heater Temperature Range	Ambient +5 °C to 60 °C
Temperature Control Accuracy	±0.1 °C
Suppressor Type	Self-regenerating electrolytic micro-membrane
Conductivity Detector	Auto-range conductivity detector
Detection Range	0 - 45,000 µS/cm
Baseline Noise	≤ 0.001 µS/cm
Baseline Drift	≤ 0.005 µS
Minimum Detectable Concentration	Cl ⁻ < 0.0003 µg/mL ; Li ⁺ < 0.0001 µg/mL

Parameter	Specification
Linearity	≥ 0.999
Repeatability (Qualitative)	$\leq 0.5\%$
Power Consumption	150 W
Dimensions (W × D × H)	336 × 458 × 650 mm
Weight	25.5 kg



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