

# ION CHROMATOGRAPH - TORON-IC™ 150+



## **Ion Chromatograph - Toron-IC™ 150+**

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**

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## **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

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### **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

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# 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 <sup>-</sup> < 0.0003 µg/mL ; Li <sup>+</sup> < 0.0001 µg/mL |

| Parameter                   | Specification      |
|-----------------------------|--------------------|
| Linearity                   | $\geq 0.999$       |
| 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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