Liquid Chromatography Spectrometer Price List



Overview

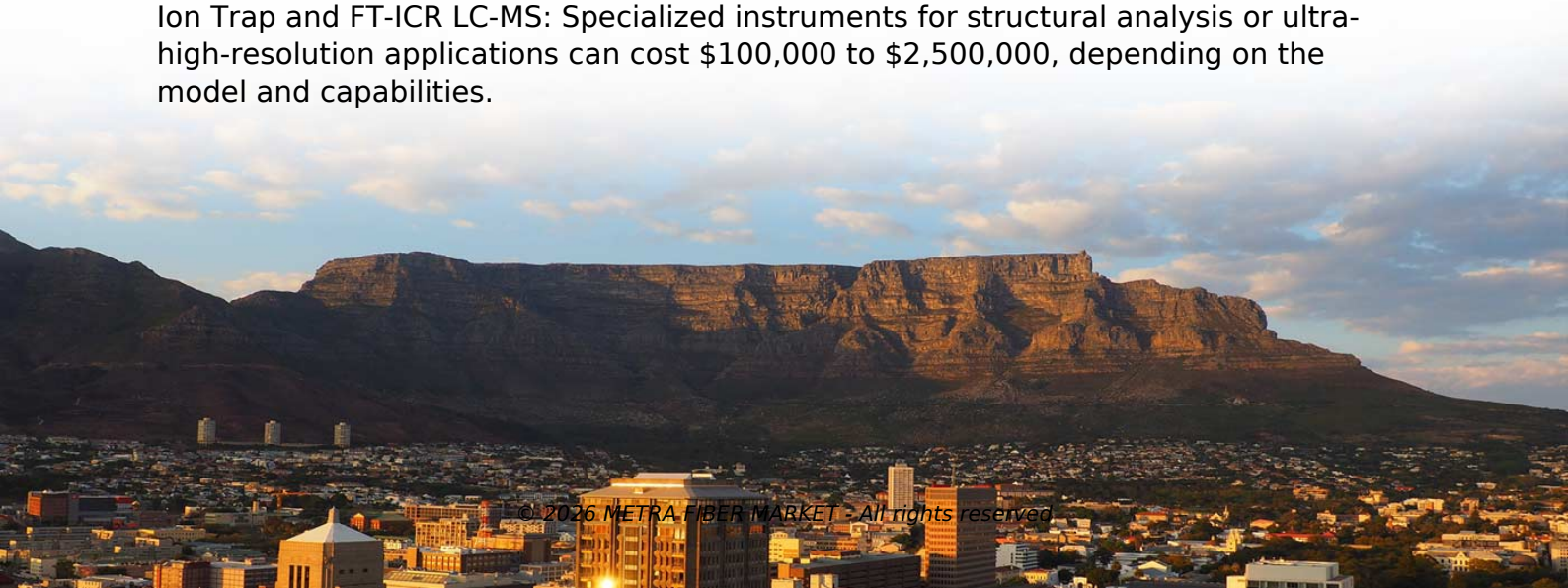
New models can offer enhanced performance, efficiency, and ease-of-use -- while used models may provide suitable performance at significantly lower prices.

Key Takeaways

LC-MS systems typically range from $50,000 for entry-level setups to over $1,500,000 for high-end, high-resolution instruments. Price Ranges by System TypeEntry-Level Benchtop LC-MS: Basic systems suitable for routine analysis start around $50,000 to $150,000, often using quadrupole mass spectrometers for environmental or pharmaceutical testing.

High-

Resolution LC-MS (QTOF, Orbitrap): Advanced systems for proteomics, metabolomics, and complex sample analysis range from $200,000 to over $1,000,000, offering superior sensitivity, resolution, and data acquisition speed. Triple Quadrupole LC-MS: Designed for quantitative analysis with high selectivity, prices typically range from $75,000 to $1,000,000, depending on configuration and throughput requirements. Ion Trap and FT-ICR LC-MS: Specialized instruments for structural analysis or ultra-high-resolution applications can cost $100,000 to $2,500,000, depending on the model and capabilities.



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Factors Affecting Cost

System Configuration: HPLC, UHPLC, or tandem LC-MS setups influence pricing.

UHPL

C systems generally cost more due to higher pressure capabilities and faster separations. Resolution and Sensitivity: High-resolution instruments like Orbitrap or QTOF provide more precise molecular analysis but come at a premium. Throughput and Automation: Multichannel or high-throughput LC systems increase productivity but add to the cost.

Accessories and Detectors: Additional detectors (UV-vis, diode array, charged aerosol) and specialized columns can significantly increase the total investment. New vs. Used Equipment: Used LC-MS systems can reduce costs by 30–70%, depending on age, condition, and included components.

Additional Considerations

Operational Costs: Consumables, maintenance, software licenses, and service contracts can add tens of thousands of dollars annually. Customization: Specialized applications may require custom columns, sample handling, or method development, which can increase the price. Vendor Support: Companies like Thermo Fisher Scientific and SCIEX provide comprehensive LC-MS systems with varying levels of support, which can affect pricing and ROI.

For precise pricing, it is recommended to request a quote from manufacturers or authorized distributors, as costs vary based on configuration, optional features, and service agreements.

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Chromatography System Costs: Factors & Pricing Breakdown

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Liquid Chromatography-Mass Spectrometry (LC-MS-MS)

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LC-MS or LC-MS/MS – Spectralab Scientific Inc.

Mass Spectrometry/ MS is an analytical technique that ionizes samples into a mass spectrum, and analyzes the ions based on their mass-to-charge ratio. LC-MS and LC-MS/MS systems employ liquid

LC/MS Instruments, HPLC MS, LC/MS Systems, LC/MS Analysis

The Agilent portfolio of LC/MS instruments feature a wide range of HPLC MS configurations, including single quadrupole (SQ) LC/MSD, triple quadrupole (TQ), and time-of-flight (TOF/Q-TOF) systems.

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