

Price of Plasma Spectrometer



AI Overview

Plasma spectrometers, including ICP and ICP-MS systems, typically range from \$50,000 to \$250,000 for new units, with used systems available from \$20,000 to \$150,000 depending on model and condition.

Price Overview

New ICP and ICP-MS systems generally cost between \$50,000 and \$250,000, with high-end models featuring advanced detection limits, automation, and enhanced sensitivity at the upper end of the range. These instruments are designed for precise elemental analysis and are widely used in research, environmental testing, and industrial applications. Used or refurbished systems offer a more budget-friendly option, typically priced between \$20,000 and \$150,000, depending on the brand, condition, and specific capabilities of the unit. Purchasing used equipment can significantly reduce upfront costs but may require additional investment in maintenance or calibration.

Factors Affecting Price

- **Instrument Type and Technology:** Triple quadrupole ICP-MS or high-resolution ICP-MS models are more expensive due to superior sensitivity and interference removal capabilities.
- **Brand and Model:** Leading manufacturers like Thermo Fisher Scientific offer premium instruments with advanced features, which increases cost.
- **Operational Features:** Automation, software packages, and detection limits influence pricing. Instruments with enhanced matrix robustness or ultratrace quantification capabilities are at the higher end.

Article Content

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Prices for new ICP and ICP-MS systems generally range from \$50,000 to \$250,000, depending on the model, capabilities, and

Inductively Coupled Plasma Spectrometer (ICP AES / ICP OES)

The emitted light is then measured by optical spectrometry. This method, known as inductively coupled plasma atomic emission

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Inductively coupled plasma spectrometer

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