

ICP-750



Inductively coupled plasma(ICP) emission spectrometer is a time-effective and highly-sensitive elemental analytical device, widely used in metallurgical, geological, petrochemical, food, environmental and nuclear industries as well as rare earth purification. Boasting wide dynamic linear range and the ability of analyzing several elements together, it has become one of the fixtures in labs for elemental analysis.

- 1) Qualitative and quantitative analysis can be made for more than 60 elements including Si, Mn, Cu, Fe, Cr, Pb, and Hg.
- 2) 16 linear CCDs are applied for full spectrum collection, covering the wavelength range of 170-800nm. All data can be read at one time, saving large amount of time and reducing sample loss.
- 3) PID temperature control system is in place to cut energy consumption, making temperature fluctuation range of $\pm 0.1^{\circ}\text{C}$. As a result, the performance stability is increased.
- 4) Paschen-Runge optical structure; concave grating with focal length of 750mm; without mechanical drive; analytical precision and stability are ensured.
- 5) Radio Frequency Generator(RFG) is used to enable small space occupation, stable



output power and high efficiency.

6) The sample feeding system involves different units which can come apart easily for cleaning and replacement.

7) Module design for protection mechanism is in place: one for water and argon pressure, the other for over voltage, current and heat. This will largely buffer operators against misoperation and increase the safety and life of the device.

8) User-friendly interface coupled with powerful software makes operation flexible, supporting spectrum display and calibration, peak identification, and anti-interference function.