

Rapid | Accurate | Non-destructive



EDX 6000B

X-ray Fluorescence Spectrometer

EDX6000B



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EDX 6000B X-ray Fluorescence spectrometer uses convenient 7 sample auto-carousel for simultaneous XRF analysis of multiple samples. The instrument features low-energy X-rays specifically for excitation of light elements such as Si, S, Na and Mg; and with automatic spectrum stabilizing EDX 6000B delivers accurate results for light elements testing. UHRD detector provide excellent energy linearity, energy resolution and high peak-background ratio. Thanks to multi-parameter linear regression method, the absorption and enhancement effects between elements are reduced.

Advantages

- Highly efficient Varian end window x-ray light tube
- High-performance electronic cooling UHRD detector
- Signal-to-Noise Enhancer
- CMOS HD camera
- Collimator and filter
- Triple safety protection mode
- Computer
- Vacuum Pump



EDX6000B

Configuration

| | | |
|----------------------------------|--|---|
| Measurement principle | EDXRF (Energy Dispersive X-ray Fluorescence) | |
| Applicable sample type | Solid, liquid, powder | |
| Measurement range | Na to U | |
| Detection limit | ppm – 99.99% | |
| Resolution | 140±5eV | |
| Testing time cost | 60-200 Seconds | |
| Precision | 0.05% (content ≥96%) | |
| Dimension | 568*325*512mm (W*H*D) | |
| Key Components | | |
| X-ray light tube | Tube voltage | 5kV-50kV |
| | Tube current | 1-1000 μ A |
| High voltage generator | Maximum voltage | 50kV |
| | Stability | 0.001% per 8 hours (temperature: 20°C ± 0.2°C) |
| Detector | SDD (Silicon Drift Detector) | |
| Collimator & Filter | Automatic switch | |
| Sample chamber | Number of Sample-cup | Automatic switch of ten sample-cups |
| | Sample observation | CMOS HD camera |
| | Sample chamber dimensions | 260mm(diam)*38mm(height) |
| | Sample-cup dimensions | 44mm(diam)*22mm(height) |
| | Vacuum Unit | For high-sensitivity analysis of light elements |
| Software | | |
| Qualitative analysis | Measurement and analysis of measured data | |
| Quantitative analysis | Calibration curve method | |
| Utility | 1. Monitoring of operating condition of the instrument | |
| | 2. Function of tabulating the results of analysis | |
| Installation Requirements | | |
| Temperature | 15°C~30°C | |
| Humidity | 35%~70% | |
| Power input | 220V (optional: 110V) | |



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• Spectroscopy • Chromatography • Mass Spectrometry

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