

Benchtop EDXRF Elemental Analyzer



K47925 EDX3500 Benchtop EDXRF Elemental Analyzer

test method

For the determination of total sulfur in petroleum and petroleum products that are single-phase. These materials can include diesel fuel, jet fuel, kerosene, other distillate oil, naphtha, residual oil, lubricating base oil, hydraulic oil, crude oil, unleaded gasoline, gasohol, and similar petroleum products. Also, for the determination of the total lead content of a gasoline.

EDX3500 elemental analyzer

The K47925 EDXRF can analyze a large array of elements from 11Na to 92U in solids, liquids, alloys, powders and thin films with improved performance. The Advanced model delivers rapid qualitative and quantitative determination of major and minor atomic elements in a wide variety of sample types. The new large-area Silicon Drift Detector provides superior data quality. The instrument footprint is smaller than previous models, allowing for optimization of bench space. Also, polarized excitation is used for lower detection limits.

Software Features

- Menu Based Software for control of spectrometer functions and data analysis
- Application templates
- Simple Flow Bar Wizard to create new methods
- Profile Fitting Software for qualitative and quantitative analysis
- Matching library for augmentation of Fundamental Parameters
- Automatic spectral overlap deconvolution
- Empirical Calibration with overlap and matrix compensation
- Automatic spectral overlap deconvolution
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ordering information

catalog no.	description
K47925	EDX3500 Benchtop EDXRF Elemental Analyzer 100/240V 50/60Hz

accessories

K47900-4	Helium Regulator, 2-stage, NPT Connections
K47925-1	Tray Assembly, Sample, 32mm, 15 position
K47925-2	Tray Assembly, Sample, 40mm, 10 position
K47925-3	Tray Assembly, Spinner, 40mm, 10 position
K47925-4	Tray Assembly, Sample, 52mm, 9 position

specifications

Conforms to the specifications of: ASTM D4294, D5059, D7220, ISO 20847, ISO 8754, IP 496, IP 336, JIS K 2541-1.

Correlates to ASTM D2622

Excitation: 50 kV X-Ray Tube with Pd Anode
50W Maximum Power

4 Standard Polarization and Secondary Targets depending on application, for optimum excitation

Optional Fifth Target for Optimal Excitation of Na and Mg

Detection:

High Performance Silicon Drift Semiconductor Detector

Peltier Electronic Cooling

Optimum Balance of spectral resolution and high count rate

Sample Chamber:

Large 38cm dia. X 10cm deep sample chamber for bulk samples

15-Position Automatic Sample Changer (32mm Sample Cups) Analysis in Air, Helium Purge, or Vacuum Available

User Interface (Computer):

External PC Computer System including: Microsoft Windows Vista Operating System, Keyboard and Mouse, Monitor, Printer

Environmental Conditions:

Ambient Temperatures 18 - 28°C (65 - 82°F)

Relative Humidity < 75%

Vibration undetectable by human. Free from corrosive gas, dust, and particles.

Dimensions:

18.2x19.4x15 (46.3x49.2x38.2)

Net Weight: 145 lbs (65.8 kg)

Electrical Requirements:

100/240V 1.4A 50/60Hz

Single Phase AC