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.

EDX1000 Elemental Analyzer

The K47900 EDXRF can analyze a large array of elements from 11Na to 92U in solids, liquids, alloys, powders and thin films. The semiconductor detector provides superior data quality and the multiple automated tube filters enhance sensitivity. Also, the K47900 features a modern smartphone style "icon-driven" user interface and built-in thermal printer. Network connections enable LIMS connectivity.

Software

- Qualitative and Quantitative Analysis
- Standardization and Validation Feature
- Fundamental Parameters
- Data Export Function with LIMS compatibility
- User Selectable Shaping Times
- Simple Flow Bar Wizard to create new applications
- Icon Driven Graphical User Interface

Dimensions wxdxh,in.(cm)
13 x 17 x 14.8 (33.1 x 43.2 x 37.6)
Net Weight: 35 lbs (16 kg)

Electrical Requirements
100/240V, 1.4A, 50/60Hz
Single Phase AC

ordering information

catalog no.	description
K47900	EDX1000 Benchtop EDXRF Elemental Analyzer, 100/240V

accessories

K47900-1	6 Position 32 mm Automatic Sample Changer
K47900-2	5 Position 40 mm Automatic Sample Changer
K47900-3	Helium Purge Option
K47900-4	2-Stage Helium Regulator

K47900 EDX1000 Benchtop EDXRF Elemental Analyzer

specifications

Conforms to the specifications of: ASTM D4294, D5059, D6481, ISO 20847, ISO 8754, IP 496, IP 336, JIS K 2541-1

Excitation:
50 kV X-Ray Tube
4W Maximum Power
6 Tube Filter Positions with Optics
Spill/Contamination Protection

Detection:
High Performance Si PIN Diode Detector
Peltier Thermo-Electric Cooling
Optimum Balance of spectral resolution and max count rate

Sample Chamber:
Large 190 x 165 x 60 mm sample chamber
Single Position 32 mm sample aperture
Single Position 40 mm sample aperture
Bulk Sample Aperture

User Interface:
8" WVGA Touch Screen Interface
Embedded Computer
Internal Thermal Printer
USB & Ethernet Connections

Environmental Conditions:
Ambient Temperatures 10 - 35°C (50 - 95°F)
Relative Humidity < 85% non-condensing
Vibration undetectable by human
Free from corrosive gas, dust, and particles

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