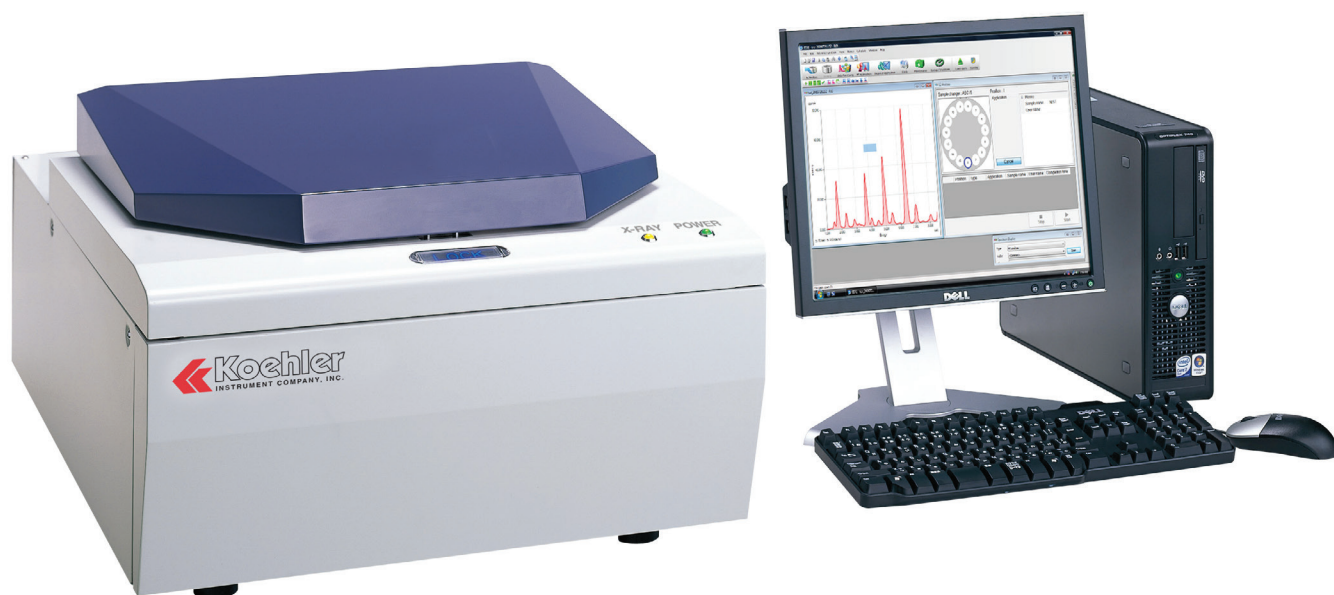


# BENCHTOP EDXRF ELEMENTAL ANALYZER



[WWW.KOEHLERINSTRUMENT.COM](http://WWW.KOEHLERINSTRUMENT.COM)

BOHEMIA, NEW YORK • HOUSTON, TEXAS

# BENCHTOP EDXRF ELEMENTAL ANALYZER



K47920

## 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

Detection Limits (LLD):

Sulfur: 0.54 ppm

Chlorine: 0.3 ppm

Lead: 0.0002 g/L

Nickel and Vanadium: 1 ppm

Iron: 2 pp,

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

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.

## EDX3000 Elemental Analyzer

The K47920 EDXRF can analyze a large array of elements from 11Na to 92U in solids, liquids, alloys, powders and thin films. The Advanced model delivers rapid qualitative and quantitative determination of major and minor atomic elements in a wide variety of sample types. The Silicon Drift Detector provides superior data quality and the multiple automated tube filters enhance sensitivity. 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

## Dimensions wxdxh,in.(cm)

23.6 x 23.6 x 15.7 (60 x 60 x 40)

Net Weight: 127 lbs (80 kg)

## Electrical Requirements

100/240V, 1.4A, 50/60Hz

Single Phase AC

## Ordering Information

### Catalog No.

**K47920** EDX3000 Benchtop EDXRF Elemental Analyzer, 100/240V

### Accessories

**K47990-1** 10-Position Sample Tray (35 – 40 mm)

**K47990-2** 9-Position Sample Tray with Sample Spinner