

Jerome 511 Mercury Analyzer



The Jerome 511 mercury analyzer is a dedicated laboratory instrument designed for the accurate analysis of mercury in a variety of substances, including water, wastewater, urine and soils.

Utilizing a patented gold film sensor, the Jerome 511 is used to help ensure compliance with established allowable mercury concentrations. The instrument provides direct readings of mercury in nanograms.

Mercury vapor is reduced from the sample using wet chemistry procedures and drawn into the instrument by an internal pump. The gold film sensor adsorbs and integrates the mercury vapor, registering it as a proportional change in electrical resistance. The resulting value is displayed on the LCD meter in nanograms, remaining until the next sample is initiated.

An alternative to atomic absorption spectroscopy, the Jerome 511 does not suffer from matrix interferences and requires less total work space and set up time, as well as smaller sample sizes.

For more information on specific applications for the Jerome 511 or other Jerome instruments, contact a technical sales representative at 1-800-952-2566. (In Arizona: 1-634-4263)

Jerome 511 Mercury Analyzer

Features

- Gold film sensor is selective to mercury and unaffected by interferences from water vapor, iodine or aromatic hydrocarbons.
- Simplified laboratory procedures include easy calibration and push-button operation for all instrument functions.
- Provides digital readings in nanograms of mercury.
- Accurate analysis of mercury concentrations in 2 minutes.
- Microprocessor automatically re-zeroes the instrument.
- One year parts and labor warranty.

Options/Accessories

- Accessory kit: Includes trimmer tool, dust cover, filters and tubing adapter
- Maintenance kit: Includes items required for routine maintenance
- Analysis kit: Bubbler top, reaction vessels, ring stand, clamp, filters, disposable syringes and needles, 30ml culture tubes, septums and tubing

Typical Applications

Mercury analysis of liquids, air and extracts.

Specifications

Dimensions:

8"W × 15"L × 5"H

Weight:

6 pounds

Power requirements:

115VAC or 230VAC, 115 watts maximum

Digital meter:

Liquid crystal display

Range:

0-100 ng Hg

Sensitivity:

0.3 ng (with 10ml sample size)

Precision:

5% relative standard deviation at 46 ng Hg

Accuracy:

± 5% at 46 ng Hg

Flow rate:

850 cc/min

Response time:

120 seconds

Operating environmental range:

0 to 40°C, non-condensing, non-explosive

GSA contract:

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U.S. patent

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