EDU-CHEM INNOVATIONS

THE ONE STOP SOURCE FOR ALL YOUR SCIENCE TEACHING AND RESEARCH NEEDS!

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Lab experiments included with most equipment. **Only from Edu-Chem!**

FULLY AUTOMATED ATOMIC ABSORPTION SPECTROPHOTOMETER

The EDU-CHEM Atomic Absorption Spectrophotometer is available in the following configuration:

- **Flame Only**
- **Graphite Furnace**
- **Combined Flame and Graphite Furnace with the option for up to nine heating ramps.**

FEATURES INCLUDE:

- Flame and graphite furnace integrated into one instrument, allowing the change over from one technique to another to be carried out by simple keystrokes using the software.
- A motorized 8 hollow cathode lamp turret allows the automatic positioning and optimization of each hollow cathode lamp using the software.
- Control of the gas flows for fuel gas (C2H2) and the positioning of the burner are carried out directly from the software, allowing optimization for the best analytical parameters for a selected analysis.
- Two methods of background correction are available; deuterium lamp and proven method of self reversal.
- Location of the wavelength and peak selection is automatically controlled from the software.
- The spectral bandwidth is automated and is available with a choice of five slit sizes.
- The electronic parameters for the photomultiplier detector, the hollow cathode lamp current and the balancing of the absorbance and background energies are controlled from the software.
- The ignition of the flame is computer controlled and the various safety interlocks offer a very safe operating system.

USER FRIENDLY SOFTWARE

- The software controls the automatic switch over for the Hollow Cathode Lamps and automatically optimizes working parameters for the system. Also allows for manual input of data, software automatically completes the configuration of the system for analysis.
- User has the choice of background correction; either the self reversal system OR the traditional deuterium lamp background correction system.
- Software shows the entire measurement process during the analysis cycle of both the flame and graphite furnace, including measured values, temperature steps, time etc. All signal and temperature data is stored for future re-call and printout.
- Detailed reporting and QC control software is included allowing printout of spectra, standard calibration curves, analysis and signal data. Full printout of operating parameters is also available for user references.

ADVANCED GRAPHITE FURNACE

The unique design of the graphite furnace reduces the chemical interference effects and memory effects by uniformly heating the graphite electrode. The computer controlled heating program allows the user to select the best heating program for the analysis. The optical temperature during the atomization stage ensures the rapid heating and rapid analysis extending the life of the graphite tube and enhancing analytical accuracy.

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