

# SLE-7000

## Atomic Absorption Spectrophotometer



Fully automated control system

Perfect safety protection measures

Easy and practical analysis software

Advanced and reliable electronic design

# Atomic Absorption Spectrophotometer

## Model 7001 Flame/Graphite Furnaces AAS

- ▶ Advanced design of internally placed graphite furnace power supply.
- ▶ Optional auto sampler for graphite furnace or for flame, making user's analysis job much more easier.
- ▶ Automatic temperature control program for graphite furnace, up to 20 segments.
- ▶ Creation of methods is easy and practical.
- ▶ User friendly interface to perform calibration and sample analysis.



## Model 7003 Fully Automatic Flame/ Graphite

- ▶ Instrument is completely controlled by PC.
- ▶ Automatic wavelengths positioning automatic slit switching, automatic the lamp current and gains setting, all can be completed in 40 seconds.
- ▶ Six-lamp rotating tower is completely controlled by a computer. Element lamps are changed and switched automatically.
- ▶ Automatic flame ignition, automatic flow control for combustion gases, automatic alarm for leakage.
- ▶ Latest software. MS Window XP. User friendly GUI.



- ▶ First such design in the world, it integrates flame, graphite furnace, optical system, atomizer, graphite furnace power supply, and electronics, all into one unit. It is one of most compact AAS in the world.
- ▶ 1800 lines/mm diffraction grating, to achieve higher resolution and higher energy.
- ▶ Single beam optical system to obtain strong energy and have a very low limit of detection for elements like As, Se etc.
- ▶ Automatic and easy switch between flame/graphite furnace.
- ▶ Safe and reliable control alarm device, gas/protection gas alarm for leaking of combustion gas, over heat protection for graphite furnace.
- ▶ Option of HG-01 hydride generator, to help you analyze elements like As, Pb, Se, Hg etc.

## Spectrometer Accessories

### HG-01 Hydride Generator

- ▶ 3 channels continuous sample pumping by a peristaltic pump. Volume injected is 1~5ml/minute.
- ▶ Tygon wear resisting long life pump tube. Life 500~1000 hours.
- ▶ Uniquely designed electronically heated ceramic tube mode. Oxidation resistant. Non polluting.



### Auto Sampler for AS-01 Graphite Furnace

- ▶ Up to 70 sample cups and 6 25ml glasses for solutions, blank solutions and chemical modifiers, can be placed.
- ▶ From a single solution injected, the system can automatically prepare up 20 cups with different concentrations. It will greatly simplify the preparation procedure for calibrations.
- ▶ Accuracy of liquid absorption can be as good as 0.1ul. Accuracy of analysis is 1% (RSD) or better.
- ▶ Uses air to separate different solutions. Absorbed sequentially to prevent pollution of original solution.



### W-100 Water Cooling Chamber

Use air compressor to cool the water. To accurately provide cooling water for all kinds of heating devices. Reliable performance.

Temperature of Cooling Water	Flow Rate	Power Supply
4°C ~ Room Temperature	2.5L/min	~110V/~220V



## Other Equipments

- ▶ GC
- ▶ HPLC
- ▶ Elisa Reader/Washer
- ▶ UV visible Spectrophotometer
- ▶ Analytical Balances
- ▶ Airborne Particle Counters
- ▶ Particle Size Analyzers
- ▶ Weather Station
- ▶ Rockers/Shaker Autoclaves
- ▶ Coal Proximate Analyser

**SPECTRO**  
Lab Equipments Pvt. Ltd.

E-41, Okhla Industrial Area Phase II  
New Delhi-110020  
Phone: 011-41611000, 40522000, 26383048/49  
Fax: 011-40503150/51  
E-mail: prashant@spectro.in; kd@spectro.in  
www.spectrolabequipments.com

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