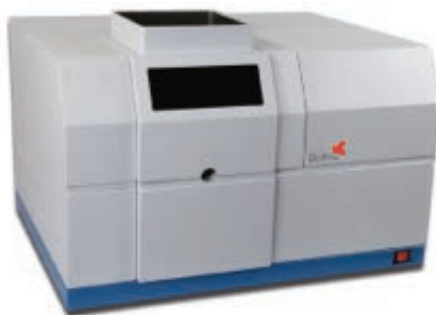


ATOMIC ABSORPTION SPECTROPHOTOMETER: MODEL VIGOR



CAT. NO.: BE/CI/SP/AAS03

FEATURES

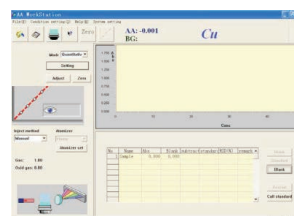
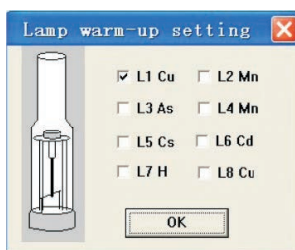
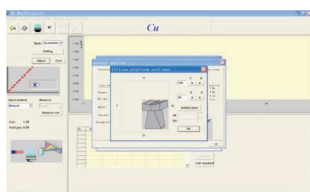
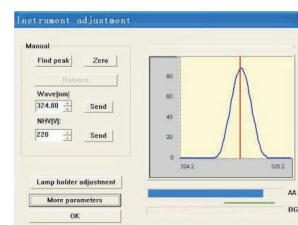
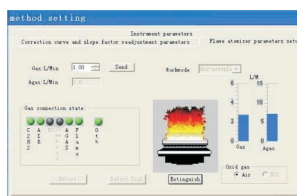
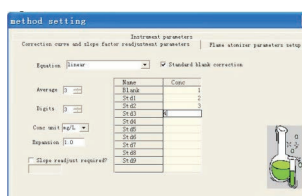
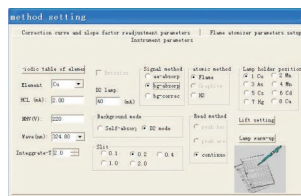
- Compact Design
- Machine operation can be controlled through software
- Software operation can provide flexible selection of the Flame or Graphite Furnace Atomizer (Optional Item)
- Integrated Floated Optical Platform Design to improve the optical system shock resistance and to keep optical signals stable throughout operation for a long duration
- Provision of eight light stands with automatic positioning to facilitate preheating of the eight element lights as well as to optimize the working efficiency of the hollow cathode lamp
- Ideal Installation of the Flame Burner enables automatic and optimal Front and Rear positioning
- Fully automated wavelength scanning and peak probing functions
- Complete safety of the User and Instrument through warning system and automatic protection for selection of wrong burner, leakage of gas and abnormal flameout
- Regulation of Deuterium lamp and minimization of self absorption
- Analysis methods include both Flame Absorption and Emission Spectra
- Offers more than 500 data storage
- Results can be analyzed in the simplest format of EXCEL
- Analysis Parameters, Data and Graphical representations can be printed
- Multi-functional software
- **Safe, reliable and convenient Flame System offers:**
 - EPC (Electronic Pneumatic Control) controls the flow of acetylene (C₂H₂) accurately
 - Easy to operate
 - An efficient atomization system enables a higher sensitivity
 - Whole operation system has a high security as the pre-installed fire safety system can sound at the times of electricity is cut-off, abnormal flameout, lack of pressure or for unmatched burner
 - The system is designed to automatically turn off the gas and prohibit tempering during safety alert
- **Fully automatic system operated through software offers features like:**
 - Selection of the Element Lamp
 - Positioning of the Filter (up-down-front-rear)
 - Adjustment of the Optical Energy
 - Selection of the Slit
 - Wavelength scanning and Peak probing
 - Selection of the Atomizer
 - Controlling of the Gas Flow
 - Automatic Flaming and Flaming-out
 - Setting of the Graphite Furnace and many more

Machine Comes with - PC workstation, Software, Air compressor, Cu Hollow cathode lamp, Air filter, Glass atomizer, 10cm titanium burner, Acetylene reducing valve

- **Advanced Graphite Furnace Temperature Controlling Technology offers:**
 - Based on PID (Photo Ionization Detection) Technology to overcome influence on the temperature rising process caused by the voltage fluctuation and changes in resistance to achieve more accurate controlling process
 - Combination of the 3m³/time fast sampling technique can make accurate and reliable testing data
 - Instant heating capacity can further improve the flexibility of the elements
 - Power source of 220 V can be used without need of dynamic power of 380 V
 - Heating capacity setting of 20 levels makes convenient testing of different samples
 - Three grades adjustable gas flow can accustom to more application needs
 - A timely alarm is buzzed when the gas and water is stopped or insufficient gas and water to avoid the equipment damage and measuring error

TECHNICAL SPECIFICATION

FEATURES	SPECIFICATIONS
Cat. No.	BE/CI/SP/AAS03
Wavelength Range	190-900 nm
Spectral Bandwidth	0.1 nm, 0.2 nm, 0.4 nm, 1.0 nm, and 2.0 nm
Wavelength Accuracy	±0.15 nm
Wavelength Receptivity	≤0.04 nm
Base Line Stability	≤0.002 A / 30 min (Cu)
Characteristic Viscosity	0.02 µg / ml / 1% (Cu)
Checking Limit	0.004 µg / ml (Cu)
Precision	0.5 %
Grating	1800 lines / mm
Inflamer	All – metal Titanium Burner
Atomizer	Effective Glass Atomizer
Lamp Stand	Eight Lamps
D2 Background Correction Ability	When the background is 1 A, the background ability should be deducted not less than 50 times; Self Absorption Background Deduction Method
Dimensions	700 × 550 × 450 mm
Weight	75 kg
Power Source	220 V ±22 V AC
FLAME SYSTEM	
Acetylene Air Burner	100 mm
Nitrous Oxide Acetylene Flame Head	50 mm
Ignition Dynamic Baseline Drift	≤0.006 A / 30 min
(Cu) Characteristic Viscosity	0.0025 µg / ml / 1%
Relative Standard Deviation	≤0.5 % (Cu, absorbance>0.8 A) (detection limit Cu≤0.008µg/ml)



OPTIONAL ACCESSORIES

CAT NO.	DESCRIPTION	APPLICABILITY	QUANTITY
BI/AAS/Acc/01	Graphite Furnace	Model Flare & Vigor	1 Set
BI/AAS/Acc/02	Hydride Generator	Model Flare & Vigor	1 Set
BI/AAS/Acc/03	Recirculating Cooling Water System	All Models	1 Set
BI/AAS/Acc/04	Hollow Cathode Lamp (Zn Ca Mg Mn Pb Cd Ni)	All Models	1 No



Graphite Furnace



Recirculating Cooling
Water System



Hydride Generator