

AELAB 4530F Single Beam 8 Lamps Turret Atomic Absorption Spectrophotometer

Features:

- ◆ Completely controlled by PC.
- ◆ Integrated floated optical platform design can obviously improve the optical system shock resistance and keep stable though use the optical signal for a long term.
- ◆ Eight light stands can be changed automatically and preheat the eight lights meantime as well as optimize the working condition of the hollow cathode lamp.
- ◆ Position adjusting: the best height of the flame burner and can automatically set the front and rear positions.
- ◆ Fully automated wavelength scanning and peak searching.
- ◆ Complete safety chains protection equipment: the function of warning and automatic safety protection towards the wrong burner, leakage of the gas, under voltage of air and the abnormal flameout.
- ◆ Deuterium lamp and self-absorption background regulation.
- ◆ Data processing: super strong database, possesses more than 500 data self-storage and cut-off storage function, can store the analyzed result with the form of EXCEL and the testing method and the result can be randomly called.
- ◆ Measuring method: flame absorption method and emission method.
- ◆ Result printing: parameter printing, data result printing and diagram printing.

Complete Automatic Controlling System

- ◆ With the help of the software, the following can be easily achieved
- ◆ Selection of the element lamp
- ◆ Up-down-front-rear adjustment of the lifter
- ◆ Adjustment of the optical energy
- ◆ Selection of the slit
- ◆ Determination of wavelength scanning and peak searching
- ◆ Selection of the atomizer
- ◆ Setting of the background deduction method
- ◆ Controlling of the gas flow
- ◆ Automatic flaming and flaming out
- ◆ Setting of the graphite furnace testing method



Graphite Furnace System



Elements Lamp



Water Chiller



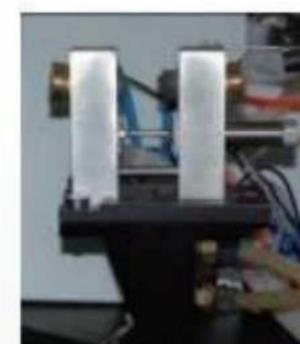
Hydride Generator

Advanced Graphite Furnace Temperature Controlling Technology

- ◆ The bringing in of PID technology can effectively overcome the influence on the temperature rising process caused by the voltage fluctuation and the resistance change to make more accurate controlling process.
- ◆ The combination of the 3ms/time fast sampling technique can make more accurate and reliable testing data.
- ◆ The fast heating capacity can improve the flexibility of the elements further.
- ◆ Use the ordinary power source of 220V without need of dynamic power of 380V.
- ◆ The maximum procedure heating capacity setting of 20 levels can make a more convenient and easier test of different samples.
- ◆ Three grades adjustable gas flow can accustom to more application needs.
- ◆ Can timely alarm when the gas and water is stopped and insufficient gas and water, can avoid the equipment damage and measuring error.

Safe, Reliable And Convenient Flame System

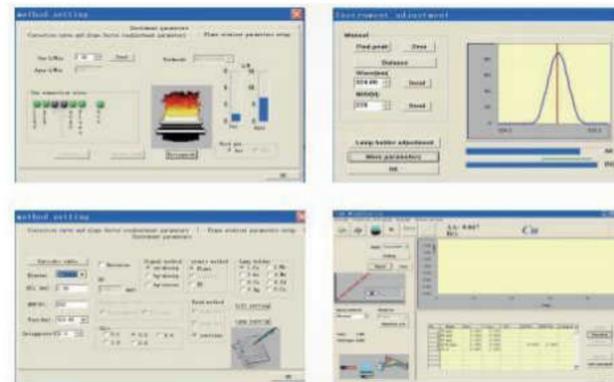
- ◆ EPC can control the flow of Acetylene (C₂H₂) more accurately and it is a kind of system which also can operate easily.
- ◆ Efficient atomization system enables a higher sensitivity.
- ◆ The whole operation system has a high security as the fire safety system can alarm whenever the electricity is cut off, abnormal flame occurs, a lack of pressure happens or the burner does not match well. And it will automatically turn off the gas, prohibit tempering. Thus it keeps the operation people and equipment from harm and damage.





AAS 4530F Multi-Functional Software Workstation

- ◆ A workstation that is supported WINDOWS7
- ◆ The rich menu brings great convenience to the use of customer
- ◆ Convenient conversion between different menus makes the operation more easily
- ◆ Various analytical correction methods provide the users more choices
- ◆ Basic default parameter settings enable even the beginners can do the normal operation
- ◆ Flexible storage, editing and printing methods give the user largest support



Technical Specifications:

Wavelength range	190 – 900nm
Spectral bandwidth	0.1, 0.2, 0.4, 1.0 and 2.0nm
Accuracy of the wavelength	±0.15nm
Receptivity of the wavelength	≤0.04nm
Base line stability	≤0.002A/30min (Cu)
Characteristic viscosity	0.02µg/ml/1% (Cu)
Checking limit	0.004µg/ml (Cu)
Preciseness	0.50%
Grating	1800 lines/mm
Inflamer	All-metal titanium burner
Atomizer	Effective glass atomizer
Lamp stand	8
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
Package size	860mmx705mmx755mm (Main instrument) 1170mmx645mmx900mm (Accessories)
Power source	220V±22V AC

Flame System	
Acetylene air burner	100mm
Ignition dynamic baseline drift	≤0.006A/30min
(Cu) Characteristic viscosity	≤0.025µg/ml/1%
Related standard deviation of the accuracy	≤0.5%(Cu, absorbance > 0.8A) (detection limit Cu≤0.008µg/ml)
Safety system	Can automatically cut off the gas when the pressure is not enough, the power is off, flameout and unconformity of the burner.

4510GF Graphite Furnace	
The highest temperature	3000 °C
The largest temperature rising speed	≥2000 °C/S
Characteristic quantity	Cd≤0.5×10 ⁻¹² g Cu≤0.5×10 ⁻¹¹ g
Accuracy	Cu≤3% Cd≤3%
Size and weight	730mm×625mm×700mm 79.3Kg
Safety system	Over current protection - Low air pressure alarm / protection Low cooling water flow alarm/protection
Power source and power	220V±22V AC 7000W

Standard Accessories

- ◆ PC workstation
- ◆ Inkjet printer
- ◆ Oil free Air compressor
- ◆ Acetylene reducing valve
- ◆ Cu Hollow cathode lamp
- ◆ Air filter

Optional Accessories

- ◆ Hollow cathode lamp
- ◆ Graphite tubes
- ◆ Recirculating cooling water system
- ◆ Hydride Generator

