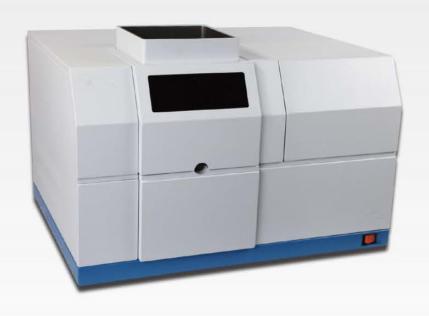
AA4530F Atomic Absorption Spectrophotometer









Characteristics

- 1. Completely controlled by PC.
- 2. 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.
- 3. 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.
- 4. Position adjusting: the best height of the flame burner and can automatically set the front and rear positions.
- 5. Fully automated wavelength scanning and peak searching.
- 6. 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.
- 7. Deuterium lamp and self-absorption background regulation.
- 8 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.
- 9. Measuring method: flame absorption method and emission method.
- 10. 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

- 1. Selection of the element lamp
- 2. Up-down-front-rear adjustment of the lifter
- 3. Adjustment of the optical energy
- Selection of the slit
- 5. Determination of wavelength scanning and peak searching
- 6. Selection of the atomizer
- 7. Setting of the background deduction method
- Controlling of the gas flow
- 9. Automatic flaming and flaming out
- 10. Setting of the graphite furnace testing method

Advanced Graphite Furnace Tempera-Ture 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

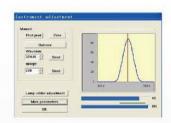
• The whole operation system has a high security as the fire safety system can alarm whenever the electricity is cut off, abnormal flame occurs, a lack of pressure happens or the burner does not match well. And it will automatically turn off the gas, prohibit temper ing. Thus it keeps the operation people and equipment from harm and damage.

Multi-Functional Software Workstation

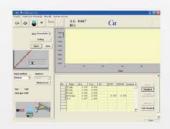
- A workstation that is supported WINDOWS
- The rich menu brings great convenience to the use
- of customer
 Convenient conversion between different menus
- makes the operation more easily

 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











4530 Atomic Absorption Spectrophotometer (Flame+Graphite)

AA4530F Atomic Absorption Spectrophotometer

Specifications

190 – 900nm
(A.S.
0.1, 0.2, 0.4, 1.0 and 2.0nm
±0.15nm
≤0.04nm
≤0.002A/30min (Cu)
0.02μg/ml/1% (Cu)
0.004µg/ml (Cu)
0.5%
1800 lines/mm
All-metal titanium burner
Effective glass atomizer
8
When the background is 1 A, the background ability should be deducted
not less than 50 times; self absorption background deduction method
700mm×550mm×450mm 75Kg
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.

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	550mm×450mm×300mm 65Kg
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
HP inkjet printer
Oil free Air compress

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

- 18 -

Precise Perfect

