



AB-630 Three-channel Atomic Fluorescence Spectrometer (Environmental protection type)

AB-640 Double-channel Atomic Fluorescence Spectrometer (Environmental protection type)

Application Fields:

- Environmental monitoring
- Food
- City water supply and drainage
- Drinking water
- Clinical medicine
- Agriculture environmental protection and agriculture product
- Chinese medicine
- Harmful element detection in cosmetics
- Geology and metallurgy
- Ocean environment and water products
- Education and scientific research

Accurate Determination of

Hg As Sb Bi Se Te Pb Sn Ge Zn Cd

AB-630 Three-channel Atomic Fluorescence Spectrometer

AB-640 Double-channel Atomic Fluorescence Spectrometer

Instrument Features

- Five patented techniques with independent intellectual property.
- Environmental protection type atomic fluorescence spectrometer with world-first "High-efficiency Hg-elimination Technique", decontaminating Hg pollution in lab environment efficiently and protecting analysts' health. (Patent)
- Chinese first quartz atomizer with "full-ceramics infrared heating temperature control" technique with super-long lifetime. (Patent)
- Chinese first technology of "low-temperature atomic Argon-Hydrogen flame auto-ignition", improving the analysis sensitivity of elements to be determined, and reducing memory effect in large degree. (Patent)
- Advanced spraying jet type hydride /vapor generation gas-liquid separation system and automatic waste liquid discharge.
- Standard RS-232 port communication; supporting USB interface communication.
- The newest special device of "Gaseous Mercury Determination", the detection limit of which reaches 1ng/m³, determining Hg content in the air, natural gas, lab and working field etc. (Patent)
- The newest special device with special technology, "Determination of Ultra-trace Hg in Water Samples" is adopted, with detection limit up to 0.0004 ug/l, realizing

direct determination of ultra-trace Hg in Class I and II ground water and seawater.

- Realize three or two elements determination simultaneously.
- Newly designed light closed optical alignment system is adopted.
- Gas line auto-control, auto-protection and auto-alarm functions incorporated.

Brand-new Windows98/Me/2000/XP operation software

- Fluorescence signal profile real-time display and overlap;
- Graphics scale auto zooming;
- Working curve auto fitting, multi-graphics display;
- Multi-functions of single-step running, continuous running and auto-sampling operation.
- All kinds of analysis program, analysis data and signal graphics can be stored and printed out;
- Several kinds of report format are available.
- Detailed software online help is provided.
- Expert system provides physical parameters of various elements, preparation of standard solutions, sample preparations, interference elimination and more than 500 relative articles on analysis methods of domestic and abroad writers.

Specifications

Element	D.L	RSD	Linear range
As Sb Bi Se Te Pb Sn	<0.03 ug/L	1%	10 ³
Hg	<0.003ug/L		
Cd	<0.001ug/L		
Zn	<2.0ug/L		
Ge	<0.3ug/L		
Hg in gas state (air, natural gas, lab, testing site etc)	<1.0ng/m ³	5%	10 ²
Hg in water sample (Sea water, surface water etc)	<0.0004ug/L	2%	