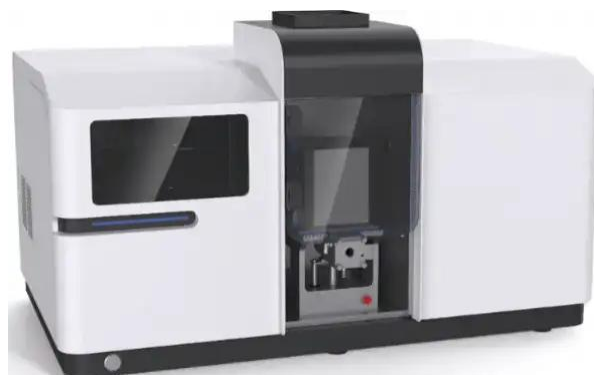
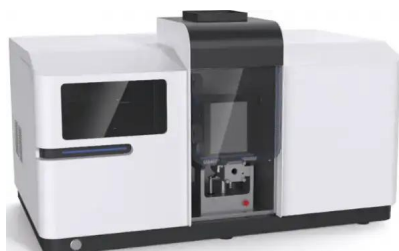




ATOMIC ABSORPTION SPECTROPHOTOMETER BFP-701

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Light Source System

Automatic 8-lamp turret, automatic optimization and alignment;
2 positions for High performance lamp;
8-lamp power on and multiple lamp preheat at the same time;
Memory function of editing each lamp position freely, with no need to use coded lamps.

Optical System

Czerny-Turner monochromator, diffraction grating groove 1800 lines/mm;
Seven spectral bandwidths automatically setting and optimization;
Casting optical platform, ultra-low deformation under high/low temperature thermal effects, comprehensively improve stability;
Double-beam optics deducts baseline drift, saves warm-up time, comprehensively i

SPECIFICATIONS

Model	BFP-701
Wavelength Range	170-900nm
Spectral Bandwidth	0.02nm
Wavelength Accuracy	Better than $\pm 0.10\text{nm}$
Wavelength Repeatability	$\leq 0.05 \text{ nm}$
Baseline Stability	60 min baseline drift: 0.0005 Abs; Instantaneous noise: 0.0005 Abs
Dynamic Baseline Stability	30 min baseline drift: 0.001 Abs; Instantaneous noise: 0.001 Abs
Resolution	Spectral bandwidth deviation: 0.02 nm;
Valley-peak energy ratio	25% (Mn at 279.5 nm and 279.8 nm)
Cu Detection Limit	0.002 $\mu\text{g/mL}$
Cu Characteristic Concentration	0.03 $\mu\text{g/mL/1\%}$
Cu Precision	0.25%
Background Correction	Better than 150 times
Dimensions	1010 x 620 x 630 mm (L x W x H)
Weight	115 kg
Alt Name	Atomic Absorption Spectrophotometer

FEATURES

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Optical System

Czerny-Turner monochromator, diffraction grating groove 1800 lines/mm;
Seven spectral bandwidths automatically setting and optimization;
Casting optical platform, ultra-low deformation under high/low temperature thermal effects, comprehensively improve stability;
Double-beam optics deducts baseline drift, saves warm-up time, comprehensively improves stability and analysis accuracy;
Baseline drift is better than 0.001Abs under 8-hour continuous work.

Atomization system

Constant and transverse magnetic field Zeeman background correction system, with all-element, all-wavelength, high background correction ability, easily deducts background interference above 2 Abs;
Enhanced flame constant magnetic field intensity up to 1.0T, improving analytical sensitivity;

Automatic ignition and gas flow precision control; The element intelligent matching technology achieves the self-adaption of flame height and flow;
Alarm and automatic protection to fuel gas leakage, abnormal flow, insufficient air pressure and abnormal flame extinction in flame system;
Equipped with an emergency button to extinguish the flame quickly.
With the function of cooling water and temperature monitoring to protect the magnetic field system for reliable operation.
With the foot-operated reading function, the testing data can be easily read by stepping on the reading panel, freeing the operator's hands.

Software and Communication

Intelligent operation software compatible to Win7 & Win10;
One-key operation for instrument optimization, supporting multi-task analysis;
Automatic curve fitting, automatic re-slope, automatic concentration calculation, etc.;
Ethernet interface makes the communication more stable.



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