BioLAB

PRODUCT CATALOG

FLAME ATOMIC ABSORPTION SPECTROMETER
BFP-801

CE ISO9001 CERTIFIED

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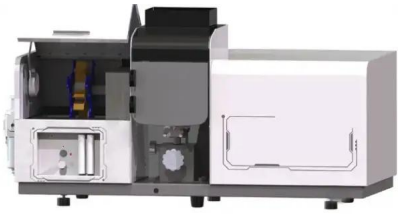
ATOMIC ABSORPTION SPECTROPHOTOMETER BFP-801

FLAME ATOMIC ABSORPTION SPECTROMETER

The core optical platform of the instrument adopts an integral casting structure, with a thickness of 20mm cast aluminum molding and a suspended platform design. The deformation of the casting under high/low temperature thermal effects is within 0.2mm, so the stability is comprehensively improved.

Aiming at the requirements of multi-element detection tasks, the uniquely designed 8-light position lamp holder is compatible with the light position element memory function of conventional lights, and easily supports 1~4 lights to be preheated at the same time, so that the light source of the instrument is on standby at any time. Ease of use further enhancement.



The flame-fog chamber system adapts polyphenylene sulfide, the internal material of the aero-engine, and the overall molding design, which has good material properties such as good flame retardancy, corrosion resistance, high temperature resistance, and high strength, ensuring long-term service life.

The industrial TA2 grade high-purity titanium integral casting flame combustion head has excellent corrosion resistance, and the seam surface finish is quasi-mirror by using the slow wire-moving process. At the same time, it supports the expansion of various wide-slit combustion heads, and the analysis of high-salt samples is more convenient

A new generation of flame control system: continuously adjustable and reliable gas circuit control, real-time status breathing light and other designs, equipped with active/passive dual safety interlocking and protection, automatic ignition

SPECIFICATIONS

Model	BFP-801
Wavelength Range	170-900nm
Spectral Bandwidth	0.1 nm, 0.2 nm, 0.4 nm, 0.8 nm, 1.6 nm, 2.4 nm
Wavelength Accuracy	
Light System	8-lamp position design with automatic rotation/switching/collimation and other functions
Lamp Support	Supports 1 to 4 lamps; multiple lamps can be preheated simultaneously to improve analysis efficiency
Lamp Position Memory	Lamp position can be edited freely without using custom coded lamps
Optical Table	Integrated casting structure suspended within the main instrument structure
Monochromator	Classic Czerny-Turner monochromator
Grating	1800 lines/mm plane diffraction grating
Peak Search & Scanning	Automatic peak search and scanning
Slit & Energy Setting	Automatic slit width and energy setting
Wavelength Optimization	Automatic wavelength optimization; no reset required when switching wavelengths
Detector	High-sensitivity, wide spectral range photomultiplier detector
Flame Burner	10 cm all-titanium burner for air-acetylene flame
Atomization Chamber	Corrosion-resistant PPS atomization chamber
Atomizer Support	Supports conventional, adjustable, alkali-resistant, organic-resistant and other atomizers
Flame Height	Continuously adjustable with locking function
Combustion Seam Adjustment	Supports 360° free rotation to adjust sensitivity
Ignition / Flame-off Control	Automatic ignition and flame-off control
Gas Flow Regulation	High-precision and high-reliability gas flow regulation system
Gas Ignition	Standard reading pedal function; easy to read test data
Safety Protection	Complete security protection and dual alarm systems for software and hardware
Flame Safety	Real-time monitoring of flame status, air pressure, ignition failure, gas leakage and abnormal flameout
Gas Shut-off	Automatically cuts off gas source and alarms in unsafe conditions
Flameout Protection	Independent active flame emergency flameout protection switch

Background Correction	Deuterium lamp background correction
Background Correction Ability	≥ 90 times at 1.0 Abs
Workstation	Professional workstation
Analysis Functions	Automatic optimization of instrument status, one-click completion, multi-task analysis and automatic switching
Measurement Repetitions	1-99 times
Statistical Functions	Automatically calculates average value, standard deviation and relative standard deviation
Concentration Fitting	Fully automatic fitting of calibration; replace/add standard solutions and sample content
Custom Information	Supports custom information addition, test data, analysis report printing, and Word/Excel format output
Dimensions	1080 x 480 x 560 mm (L x W x H)
Weight	70 kg
Alt Name	Atomic Absorption Spectrophotometer

FEATURES

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A new generation of flame control system: continuously adjustable and reliable gas circuit control, real-time status breathing light and other designs, equipped with active/passive dual safety interlocking and protection, automatic ignition, and other functions, so that the instrument can work safely and stably in complex environments

The new oxygen-enriched flame technology can be upgraded, and the flame temperature rises to above 2700°C, realizing a high-temperature flame without dangerous chemical laughing gas, and ensuring the determination of high-temperature elements Ca, Al, Ba, Mo, Ti, V, etc.

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