



FLAME TYPE ATOMIC ABSORPTION SPECTROPHOTOMETER BEQ-4601

ATOMIC ABSORPTION SPECTROPHOTOMETER BEQ-4601

ATOMIC ABSORPTION SPECTROPHOTOMETER



8-Lamp Automatic Turret: Fully automatic 8-lamp turret supports 1 lamp working + 7 lamps preheating simultaneously, improving multi-element analysis efficiency.
Stable Optical System: Aberration-corrected Czerny-Turner monochromator with a high-performance Hamamatsu PMT detector ensures stable optical performance and reliable detection.

Precise Flame Gas Control: High-precision mass flow controllers accurately regulate fuel gas flow, while the modular gas supply system improves operational stability and safety.

Extended Flame Linear Range: Interchangeable emission burner is suitable for easily ionized elements such as K and Na, providing a linear range up to 3x wider than a conventional flame.

Flexible Graphite Furnace Control: Supports optical control and constant-voltage

SPECIFICATIONS

Model	BEQ-4601
Wavelength Range	190-900nm
Spectral Bandwidth	
Wavelength Accuracy	Better than $\pm 0.20\text{nm}$
Wavelength Reproducibility	Better than 0.06 nm
Resolution	$0.2\text{ nm} \pm 0.02\text{ nm}$
Static Baseline Stability	Baseline drift $\leq 0.003\text{ Abs}/30\text{ min}$; Instantaneous noise $\leq 0.0005\text{ Abs}$
Dynamic Baseline Stability	Baseline drift $\leq 0.003\text{ Abs}/15\text{ min}$; Instantaneous noise $\leq 0.003\text{ Abs}$
Cu Determination by Flame	
Detection Limit	$\leq 0.003\text{ }\mu\text{g/mL}$
Sensitivity	$\leq 0.03\text{ }\mu\text{g/mL}/1\%$
Precision	$\leq 0.5\%$
Linear Correlation Coefficient	≥ 0.9998
Linear Range	$\geq 0.65\text{ Abs}$
Background Correction	
D ₂ Lamp Background Correction	At 1 A, correction capability is better than 30 times
S-H Background Correction	At 1.8 A, correction capability is better than 30 times
Monochromator	C-T Type
Photomultiplier	R928
Atomizer	Air-C ₂ H ₂ FlameFlame Emission
Dimensions	128x75 x83
Weight	85 kg
Power Supply	Main Unit: Single-phase AC, 110V/220V
Maximum power consumption	0.15 kVA
Alt Name	Flame Type Atomic Absorption Spectrophotometer

FEATURES

8-Lamp Automatic Turret: Fully automatic 8-lamp turret supports 1 lamp working + 7 lamps preheating simultaneously, improving multi-element analysis efficiency.

Stable Optical System: Aberration-corrected Czerny-Turner monochromator with a high-performance Hamamatsu PMT detector ensures stable optical performance and reliable detection.

Precise Flame Gas Control: High-precision mass flow controllers accurately regulate fuel gas flow, while the modular gas supply system improves operational stability and safety.

Extended Flame Linear Range: Interchangeable emission burner is suitable for easily ionized elements such as K and Na, providing a

linear range up to 3x wider than a conventional flame.

Flexible Graphite Furnace Control: Supports optical control and constant-voltage control for graphite furnace analysis, allowing optimization according to different elements and graphite tubes.

One-Click Method Optimization: Automatic optimization of analytical conditions plus an expert method database simplifies method setup and routine operation.

Chemical-Resistant Spray Chamber: Molded PPS spray chamber offers high chemical and thermal resistance, suitable for strong-acid and demanding sample environments.

Multi-Level Safety & Reliable Communication: Lamp-current monitoring, safety interlocks, graphite furnace temperature protection and dual circuit breakers improve operational safety, while bus-based communication enhances anti-interference and data transmission reliability.



Biolab Scientific Ltd.

Trillium Executive Center, East Tower, 675 Cochrane Dr, Markham, Ontario L3R 0B8, Canada

Email: info@biolabscientific.com | Website: www.biolabscientific.com