



GRAPHITE FURNACE TYPE ATOMIC ABSORPTION SPECTROPHOTOMETER BEQ-4701

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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-4701
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 nm $\pm$ 0.02 nm
Static Baseline Stability	Baseline drift $\leq$ 0.003 Abs/30 min; Instantaneous noise $\leq$ 0.0005 Abs
Dynamic Baseline Stability	Baseline drift $\leq$ 0.003 Abs/15 min; Instantaneous noise $\leq$ 0.003 Abs
Cd Determination by Graphite Furnace	
Detection Limit	$\leq$ 0.5 pg
Sensitivity	$\leq$ 0.6 pg
Precision	$\leq$ 2.8%
Linear Correlation Coefficient	$\geq$ 0.9994
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	Graphite Furnace
Dimensions	128x75 x83
Weight	90 kg
Alt Name	Graphite Furnace Type Atomic Absorption Spectrophotometer

FEATURES

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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.



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