



FLAME TYPE ATOMIC ABSORPTION SPECTROPHOTOMETER BEQ-4401

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The optical platform, employing a novel "silicon-aluminum alloy integral casting" structure, is integrally suspended and installed within the main instrument structure.

10cm all-titanium burner head

Corrosion-resistant PPS atomizing chamber, supports multiple atomizer extensions

Flame foot pedal reading function for easy data reading

Comprehensive safety alarm system with dual software and hardware protection

Supports oxygen-enriched flame extension, automatic/manual flow extension, etc.

SPECIFICATIONS

Model	BEQ-4401
Wavelength Range	170-900nm
Spectral Bandwidth	Cu $\leq \pm 0.02$ nm
Wavelength Accuracy	$\leq \pm 0.20$ nm
Wavelength Accuracy Error	0.12 nm
Wavelength Repeatability	≤ 0.08 nm
Wavelength Repeatability Result	0 nm
Spectral Bandwidth Deviation	Cu $\leq \pm 0.02$ nm
Shift Slit Positioning Error	≤ 0.10 nm
Shift Slit Positioning Error Result	0.02 nm
Static Baseline Drift	≤ 0.003 Abs / 30 min
Static Baseline Drift Result	0.0025 Abs
Dynamic Baseline Drift	≤ 0.003 Abs / 15 min
Dynamic Baseline Drift Result	0.001 Abs
Static Baseline Noise	≤ 0.001 Abs
Static Baseline Noise Result	0.0008 Abs
Dynamic Baseline Noise	≤ 0.003 Abs
Dynamic Baseline Noise Result	0.0002 Abs
Short-Wave Noise	≤ 0.01 Abs
Short-Wave Noise Result	0.002 Abs
Short-Wave Background	$\leq 1.5\%$
Short-Wave Background Result	0.8%
Short-Wave High Voltage	≤ 650 V
Short-Wave High Voltage Result	522 V
Long-Wave Noise Result	0.001 Abs
Long-Wave Background Result	0.5%
Long-Wave High Voltage Result	328 V
Flame Sensitivity - Characteristic Concentration of Cu	≤ 0.03 $\mu\text{g/ml}/1\%$
Flame Sensitivity Result	0.019 $\mu\text{g/ml}/1\%$
Sensitivity	≥ 0.15 Abs
Sensitivity Result	0.22 Abs
Apparent Atomization Rate	$\geq 8\%$
Apparent Atomization Rate Result	12%
Detection Limit	Cu ≤ 0.003 $\mu\text{g/ml}$

Detection Limit Result	0.0007 µg/ml
D2 Background Correction Capability	≥ 60 times
D2 Background Correction Result	320 times
Flame Precision	Cu ≤ 0.5%
Flame Precision Result	0.25%
Calibration Curve Linearity	Cu ≤ 5%
Calibration Curve Linearity Result	1.80%
Flame Linearity Range	≥ 0.6 Abs
Flame Linearity Range Result	1.05 Abs
Safety of Flame Atomization System	Yes
Corrosion Resistance Capability of Atomization System	Yes
Data Processing Function	Correct and Valid
Insulation Resistance	≥ 20 MΩ
Insulation Resistance Result	787 MΩ
Leakage Current	≤ 5 mA
Leakage Current Result	0.66 mA
Electrical and Mechanical Automatic Control Function	Yes
Control Function Result	Flexible, Stable and Reliable
Appearance	Yes
Complete Sets of Instrument	Yes
Alt Name	Atomic Absorption Spectrophotometer



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