



Atomic Absorption Spectrophotometer

Fully Automatic Flame System

Specifications of AAS-3700

Optic System

Wavelength Range:	190nm - 900nm
Monochromator:	Czerny-Turner configuration
Spectral Bandwidth:	0.1nm, 0.2nm, 0.4nm, 1.0nm, 2.0nm (5 steps. with automatic changeover)
Wavelength Accuracy:	± 0.25nm
Wavelength Repeatability:	0.15nm
Baseline Stability:	0.005A/30 min

Flame analysis

Sensitivity (Cu):	0.03 µg/ml/1%
Burner Head:	Titanium alloy burner
Nebulizer:	High efficiency glass nebulizer, Acid proof available as an option
Atomization Chamber:	Corrosion-resistant material
Position Adjustment:	Automatic setting of optimum height for flame burner
Safety:	Automatic ignition and of mixing air-acetylene gas with safety control

Background correction

Deuterium Lamp Background Correction:	Deuterium Lamp Background Correction: >40 times (1Abs) and Self-Reversal Background Correction: >60 times (1Abs)
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Data processing

Analytical method:	flame and hydride
Determination method:	calibration curves using 1 st , 2 nd and 3 rd order of fit, standard addition method
Repetitions:	1-20 with calculations of average, SD and RSD
Result Printout:	output of parameters, data, spectra and calibration curves

Mainframe

Light Source:	8 hollow cathode lamp turrets with 2 lamps simultaneously lit (one lamp pre-heated)
Power Supply:	110V/60Hz or 220V/50Hz 200W (mainframe)
Dimensions:	mainframe 110 cm x 50cm x 45cm

NOTE:

The sensitivity of the Cu 2µg/ml is more than 0.28Abs..