

ATOMIC ABSORPTION SPECTROPHOTOMETER: MODEL DULCE



CAT. NO.: BE/CI/SP/AAS01

FEATURES

- **Feature-rich:** Automatic deduction of blank value, sensitivity drift, baseline drift, Automatic deduction of mean and the deviation, automatically carries on the work curve equation computation and reads the concentration value. Analysis report generation, Method printing, hydride generation and on - line enrichment flow injection.
- **Simple operation:** Compared with the non-computer equipment, BioEra's Atomic absorption spectrophotometer saves a lot of manual data processing time.
- **Signal stability:** The machine is equipped with imported high-quality photomultiplier and advanced integrated circuits. Moreover, it has single-beam optical path, light monochromator and efficient atomizer. The machine delivers a low noise data and has a good accuracy. Computer logarithmic transformation is accurate, no temperature drift with good baseline stability.
- **Corrosion-resistant atomization system:** The atomization chamber is made up of high-quality engineering plastic. The combustion head has a long-lasting life. The machine has a fast-thermal balance of titanium burning head.
- **High efficiency atomizer:** The equipment has high sensitivity and high reproducibility with guaranteed results.
- **Peak precision:** a special wavelength fine adjustment mechanism can accurately align the wavelength peak position.
- **Continuous slits:** The continuous slit mechanism ensures extremely high resolution and optimum spectral bandwidth acquisition.
- **Good security:** The machine is equipped with two explosion-proof measures, even if the air is interrupted, there will be no accident.
- Data processing:
- Track printing function (need to connect printer).
- Print working curve graph.
- Print parameter table.
- Print analytical report.
- Connect the recorder, track record T and A values.
- Deduct blank, baseline drift and drift-sensitive functions.
- Set up test conditions.
- Working curve (linear, nonlinear) assay capabilities, standard addition method (linear and nonlinear) functional assays, using the above functions can be concentration direct reading.
- Statistics: exclude suspicious data, calculate the mean and relative standard deviation.

Machine Comes with - Air compressor, Cu Hollow cathode lamp, Air filter,
Glass atomizer, 10cm titanium burner, Acetylene reducing valve

TECHNICAL SPECIFICATION

FEATURES	SPECIFICATIONS
Model	Dulce
Cat. No.	BE/CI/SP/AAS01
Wavelength range	190 – 900 nm
Spectral bandwidth	0 – 2.0 continuously adjustable
Wavelength error	±0.5nm
Wavelength repeatability	≤0.3nm
Detector	Photomultiplier
Characteristic viscosity	0.02ug/ml/1% (Cu)
Precision	0.5%
Grating	1200 lines/mm
Splitter	C-T-type grating monochromator
Blaze wavelength	250 nm
Inflamer	All -metal titanium burner
Atomizer	Effective glass atomizer
Lamp stand	Eight lamps
D2 background correction ability	When the background is 1A, the background ability should be deducted not less than 50 times; Self-absorption background deduction method
Power source	220V AC
Rated power	200W
TECHNICAL INDICATORS	
Wavelength repeatability	Better than 0.3 nm (One way)
Resolution	Distinguish the two lines of manganese and trough energy <40% (spectral bandwidth of 0.2nm)
Baseline stability	≤ 0.005 A / 30min (Cu)
Wavelength indication error	± 0.5nm
Detection limit	≤ 0.007 μ g / ml (Cu)
Characteristic concentration	≤ 0.04 μ g / ml / 1% (Cu)
FLAME SYSTEM	
Acetylene air burner	100mm
Nitrous oxide acetylene flame head	50mm
Ignition dynamic baseline drift	≤0.006A/30min
Characteristic viscosity (Cu)	0.0025ug/ml/1%
Relative standard deviation	≤0.5% (Cu, absorbance > 0.8A) (Detection limit Cu ≤0.008ug/ml)
Safety system	Through over current alarm/ low air pressure alarm/ low cooling water flow alarm
Dimensions (W x D x H)	880 X 550 X 500 mm
Weight	60 Kg
Light source	Halogen cathode lamp
Splitter	C-Type grating monochromator