LABTRON

Flame Atomic Absorption Spectrophotometer

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Flame Atomic Absorption Spectrophotometer LAAS-A12

Flame Atomic Absorption Spectrophotometer LAAS-A12 is a microprocessor controlled instrument based on analysis of metal ions by flames and their absorption at a wavelength of 190 to 900 nm. The C-T monochromator and variance of bandwidth provides user flexibility. Equipped with safety features like auto shut on acetylene gas leakage makes this instrument user friendly

Features

- Auto-setting for flow, ignition and flameout protection
- Automatic control for scanning wavelength and peak
- Single slit titanium metal burner
- Photomultiplier detector
- Corrosion resistant atomizing chamber
- Glass, plastic and stainless steel sprayer
- Real time monitoring for flame and pressure
- Auto shut on acetylene gas leakage for end user safety

Applications

Used for analysis of metal element in opaque materials, life science, detection of trace metal elements in food, medical etc.

Specification

Model No.	LAAS-A12
Wavelength range	190 nm ~ 900 nm
Spectral bandwidth	0.1 nm, 0.2 nm, 1.0 nm, 2.0 nm
Wavelength accuracy	± 0.25 nm
Wavelength repeatability	0.15 nm
Temperature	15 ^{0}C to 30 ^{0}C
Humidity	≤ 75 %
Monochromator	C-T
Optical system	1800 lines / mm
Detector	Photomultiplier
Quality concentration	3.0 µg / ml
Absorbance	> 0.300 Abs
LOQ	(Cu) 0.006 µg / ml
Burner	100 mm metallic titanium
Repeatability	RS D ≤ 1 %
Sprayer	Glass, plastic and stainless steel
Atomization chamber	Corrosion resistant
Safety protection	Turn off alarm for acetylene gas leakage
Measurement method	Air-acetylene flame / hydride generator atomic absorption method
Concentration calculation	Standard curve, automatic matching, standard addition
Power	150 W
Power supply	AC 220 V / 50 Hz
Dimensions	1000 x 350 x 390 mm
Weight	70 Kg