



# ATOMIC FLUORESCENCE SPECTROMETER

## Atomic Fluorescence Spectrometer LAFS-A10

Atomic Fluorescence Spectrometer LAFS-A10 is a microprocessor controlled double-channel, non-dispersive unit used for trace element composition, ultra-trace analysis of Mercury and all other hydride-forming elements. Pre adjusted referral optical plane to coincide atomizer center with optical focus. Equipped with a feature of real time conversion of data into graph.

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### Features

- » Double channel detection for trace element analysis
  - » Peak height and peak area integral detection method
  - » High stability light source
  - » High intensity hollow cathode lamps for high sensitivity and stability
  - » Gas - liquid separator for improved repeatability of results
  - » Double shielded quartz atomizer with automatic igniting argon – hydrogen flame
  - » Stable gas flow
  - » Automatic gas alarm pressure at critical point
  - » USB communication for real time automatic detection
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### Applications

Used in analysis/ detection of compound present in air of water, heavy metal detection, redirect photons , in various fields of geology, metallurgy, medicine, chemical industry, food inspection, water supply, waste water treatment and scientific research.

## Specification

Model No.	LAFS-A10
Beam Configuration	Dual Channel
Elements ( Measuring Range )	< 0.01 µg/L
As, Se, Pb, Bi, Sb, Te, Sn	< 0.001 µg/L
Hg Cd	< 1.0 µg/L
Zn	< 0.1 µg/L
Ge	
Precision ( RSD )	< 1.0
Linear range	More than 3 orders of magnitude
Lamp	Hollow cathode lamp
Power Supply	220 V
Dimension	1000 x 350 x 390 mm
Weight	70 Kg

### Auto Injector AU-A10

Auto injector AU-A10 is used with atomic fluorescence spectrometer for steady, quick and accurate auto injection. It has a configuration of around 120-position injectors with a volume of 10 ml.

### Features

- » Auto zero reset for the robotic arm
- » 3D robotic arm with 3D locating deviations within a range of 0.1 mm
- » Auto- identification of auto injector when software is turned on
- » 120-injector disc with 10 ml of standard tube ( array of 15 x 8 )
- » Zero reset cleaning position with minimum degree location of accumulation error
- » Short auto-injector location time ( X and Y axis move at the same time )
- » No injection drip
- » Stable, fast and accurate low noise operation
- » UV on-line digestion device upgradation available