

**High Resolution Continuum Source
Flame Atomic Absorption Spectrometer
Model- Contra AA-300, Analytikjena, Germany**



Key Components of Contra AA-300

Source: High Pressure Xe arc Lamp

Atomiser: Air –Acetylene Flame

Monochromator: High Resolution: $\lambda/\Delta\lambda > 145000$ (pm-range)

Detector: Charged Coupled Device

Used for Analysis of Alkali, Alkaline Earth, Transition and Heavy metals

Nature of samples required for analysis: Liquid, Solid(needs dissolution)

Sample size normally required: For Solution: 10 mL(for 1 element), For Solid: 1 g

Lowest measurement capability: $\mu\text{g mL}^{-1}$

Precautions for sample processing: Salt content of the solution to be analyzed should not exceed 20 mg L^{-1} . Acid concentration of the solution should not exceed 4%