

# Atomic Absorption Spectrophotometer

## SUITABLE FOR VARIOUS APPLICATIONS:

- ❖ Beverage
- ❖ Pharmaceutical
- ❖ Chemical Analysis
- ❖ Biotechnology
- ❖ Microbiology
- ❖ Power & Petroleum
- ❖ Agricultural
- ❖ Drinking Water/Wastewater
- ❖ Environment

## FEATURES:

- ❖ Excellent total reflection optical system ensures excellent signal-to-noise ratio of the instrument.
- ❖ Comprehensive and safe intelligent gas control module.
- ❖ Excellent full band deuterium lamp background correction technology and high-performance self absorption double background correction.
- ❖ Fully automatic instrument control, light source supports high-performance element lamp, and can be completed quickly with one key.
- ❖ Original lamp position eight lamp holder 360 degree rotation design.
- ❖ Novel atomizer and intelligent elevator.
- ❖ Simple, professional, automatic and fully operated RG WIN AAS workstation software under MS window system.



**MODEL: GAA 8804**

## TECHNICAL SPECIFICATIONS:

- ❖ **Optical System:** Single Beam
- ❖ **Monochromator:** Czerny-Turner type, focal lengths at 350mm
- ❖ **Grating:** Holographic diffraction with 1800 lines/mm
- ❖ **Wavelength Range:** 190-900 nm
- ❖ **Slits:** Automated slit selection 0.1, 0.2, 0.4, 0.7, 1.4, 2.0 nm
- ❖ **Wavelength Accuracy:**  $\pm 0.3$  nm
- ❖ **Wavelength Repeatability:**  $\pm 0.1$  nm
- ❖ **Lamp:** Automated 4-lamp turret
- ❖ **Reading Mode:** T, A, C
- ❖ **Photometric Range:** 0-125%, -0.1-3.00A
- ❖ **Static Baseline Drift (Cu):**  $\leq 0.004$ A/30 min
- ❖ **Dynamic Baseline Drift (Cu):**  $\leq 0.006$ A/15 min
- ❖ **Background Correction:** Deuterium (D2)

## FLAME

- ❖ **Characteristic Concentration:**  $\leq 0.04 \mu\text{g/ml}$
- ❖ **Detection Limit (Cu):**  $\leq 0.008 \mu\text{g/ml}$
- ❖ **Repeatability (Cu):**  $\text{RSD} \leq 1\%$
- ❖ **Acetylene Flow Control:** Auto 12-Level
- ❖ **Air Assist Control:** Auto 4-Level
- ❖ **Ignition Method:** PC control
- ❖ **Detector:** Wide range UV sensitive photomultiplier tube
- ❖ **Burner Head:** Titanium 100mm burner for air/acetylene operation
- ❖ **Nebulizer:** High efficiency glass nebulizer
- ❖ **Spray Chamber:** Corrosion resistant material spray chamber
- ❖ **Safety Protection:** Automatically cut off gas in case of low pressure, power failure, flame out, or burner mismatched

## DATA PROCESSING

- ❖ **Measuring method:** Flame method, Graphite furnace method, Hydride generation-Atomic absorption method, Flame emission method
- ❖ **Concentration calculation method:** Standard curve method (6 linear/non-linear fitting methods), Standard addition method, Interpolation method
- ❖ **Repeat measurement times:** 1-30 times, Calculate and give the average value of absorbance/concentration, standard deviation and relative standard deviation
- ❖ **Report printing:** Parameter printing, Data result printing
- ❖ **Dimensions/ Weight:** 850 x 650 x 550 mm/95kg
- ❖ **Ambient Temp.:** 10 ~ 35 °C
- ❖ **Ambient Humidity:**  $\leq 85\%$
- ❖ **Power:** 110/220V, 50/60Hz



## GenNEXT Lab Technologies Pvt. Ltd

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