

**Product Name :**  
Atomic Absorption Spectrophotometry and Accessories

**Product Code :**  
NUGBLY0045



**Description :**

Atomic Absorption Spectrophotometry and Accessories

**Technical Specification :**

Atomic Absorption Spectrometer

Compact fully-automatic atomic absorption system, with full multi-element capability.

Controlled with either a stand-alone (Local Control) module or a PC running specialized Windows based software.

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Rugged construction allows for continual use.

Features include Titanium burners, 8-position data-coded, auto-aligning lamp carousel, fully automatic gas control system and automatic background correction.

Supplied with fully sealed Stockdale Double beam Optics to give maximum signal-to noise ratio during signal measurement.

All mirrors are silica coated for improved performance.

Self-calibrating Ebert Monochromator provides automatic wavelength and band-pass self-up.

ISO Certified

Light source:- multi-element hollow cathode lamps Un-coded and Data Coded hollow cathode lamps  
HGA-type Graphite Furnace: Built-in fully computer controlled Heated Graphite Atomizer (HGA). Massmann-type graphite furnace. Two inert gas streams (one around and one through the graphite tube) are computer controlled independently. Pneumatic opening and closing of the furnace for easy tube change. Background correction is performed, using a high intensity deuterium arc lamp as the continuum source.

Monochromator: Littrow design with motorized drive for automatic wavelength selection and peaking.

Wavelength range: 180-900 nm

Diffraction grating: 1800 lines/mm blazed at 236 nm and 597 nm Grating area: 64 x 72 mm

Reciprocal linear dispersion: 1.6 nm/mm (nominal) Focal length: 267 mm

Spectral Bandwidths User selectable automatic slit widths of 0.2, 0.7 and 2.0 nm at their optimized slit height.

Detector Wide-range segmented solid-state detector, including a built-in low-noise CMOS charge amplifier array.

Furnace Features Analytical programs with up to 12 steps can be set up. Each step can be programmed with the following parameters:

Temperature Ambient up to 2600 °C (up to 3000 °C with 900H) in steps of 10 °C

Ramp Time 0 to 99 sec in steps of 1 sec Hold Time 0 to 99 sec in steps of 1 sec

Internal Gas Flow 0 mL/min (gas stop), 50 mL/min (mini-flow), 250 mL/min (full flow); can be switched over to another type of gas (alternate gas).

Data Control Complete PC control for AA software operating under Microsoft® System Windows® 7. Provides complete control of the instrument and its major accessories plus data handling and storage.

Including the following components:

Water re-circulator

For AA Software Assembly

ANALYST BURNER HEAD N2O-C2H2

Nebulizer Adjustable Plastic NEBULIZER TUBING ASSEMBLY ANALYST BURNER HEAD N<sub>2</sub>O-C<sub>2</sub>H<sub>2</sub>

COMPRESSOR AA OIL FREE AIR 220V/50- 60HZ.

Deliver 1.8 cfm (50 L/min) at 60 psi (4.2 kg/cm<sup>2</sup>). Mounted on a 10-gallon (38 liter) tank built to ASME high-strength specifications. 230 V., 50 Hz.

AIR/ACETYLENE FILTER ASSY

ACETYLENE GAS CYLINDER WITH REGULATOR NITROUS OXIDE PRESSURE REG

ARGON/NITROGEN GAS CYLINDER WITH REGULATOR

Blower and Vent Assembly extraction system

Hollow Cathod Lamps

Au LUMINA HCL, Al LUMINA HCL, EDL SYS 2 AS, Ag LUMINA HCL, B LUMINA HCL, Ba LUMINA HCL, Be LUMINA HCL, Bi LUMINA HCL, Ca LUMINA HCL, Cd LUMINA HCL, Co LUMINA HCL, Cr LUMINA HCL, Cu LUMINA HCL, Fe LUMINA HCL, EDL SYS 2 HG, K LUMINA HCL, Li LUMINA HCL, Mg LUMINA HCL, Mn LUMINA HCL, Mo LUMINA HCL, Na LUMINA HCL, Ni LUMINA HCL, Pb LUMINA HCL, Pd LUMINA HCL, Pt LUMINA HCL, Sb LUMINA HCL, Sn LUMINA HCL, Sr LUMINA HCL, Ti LUMINA HCL, W LUMINA HCL, Zn LUMINA HCL

Aqueous standards 500mL 100 ppm for Elements in above lamps (SHORT CABLE)

Flame and Autosampler for AA

Is a computer-controlled multi-purpose sampling system for AAS. The autosampler automates standard and sample introduction for instrument calibration and sample analysis, extending the spectrometer's capabilities to those of a fully automated analytical workstation.

high-precision motors moves the sampling arm of the in the X and Y coordinates simultaneously, Random-access programming giving flexibility in the placement of samples and reference solutions. provides more than 200 vessel positions for maximum capacity built-in peristaltic pump for continuous rinsing of the sampling capillary between samples to significantly reduce the risk of carryover.

Mercury/Hydride System

Manually operated system for the high sensitivity determination of Hg and metallic

hydride-forming elements such as As, Bi, Sb, Sn, Se, and Te. Includes analyzer with sample flask and reagent reservoir. Switch allows selection of NaBH<sub>4</sub> or SnCl<sub>2</sub> reductant solution. Also includes a quartz cell, which may be heated with an air- acetylene flame. No electrical connections are required.

Quartz Cell Holder.

Required to mount the flame-heated quartz cell of the Hg/Hydride System or the Flow Injection System on all burner systems.

Computer Printer

Installation & Basic operational training

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## Civil Mechanical India

**Website:** [www.civilmechanicalindia.com](http://www.civilmechanicalindia.com), **Email:** [export@civilmechanicalindia.com](mailto:export@civilmechanicalindia.com)

**Address:** 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India, **Phone:** +91-0171-2643080, +91-0171-2601773