



Atomic Absorption Spectrophotometer

Fully Automatic Flame System

Specifications of AA-3700

Safety Functions:	Sensor controls insure the correct use of the burner head, check the siphon system, monitor the liquid level in the waste vessel, ensure correct operating gas pressures are maintained. In case of over pressurization of spray chamber, flame not detected or system power failure, the safety interlocks shut down the gases automatically.
Safety Measures:	Automatic gas leak check. Automatic air – C ₂ H ₂ flow rate increasing. Flame monitor, prevention of wrong burner head use. Automatic flame extinction via flame vibration sensor. Safety interlock, Burner type , Burner installation, Liquid trap, Pressure relief stopper. Flame operation, Flame shield, and Oxidant pressure upper and main power. Separate upper and lower flame shields to operator from heat and UV radiation. Allows external adjustment of all burner controls.
Flow-Injection Technique:	Continuous rinse function for analysis of small sample volumes and best operation conditions for samples with a high salt or matrix content.
Hydride & Hg Generation:	The Hydride and Hg systems for the determination of As at the µg/L range Continuous flow (continuous) mode.
Software:	AAWin2.0 Software Package, Integrated 32-bit software for AA control, calibration, installation kit method development method. Data storage with GLP (Good Laboratory Practice). All elements determine sample by sample. Providing multi-tasking access to 3rd party software, such as spreadsheets, word processing, etc. Standard; QC spike; duplicates, precision, correlation coefficient and duplicates, limit tests. Each test provides a choice of user-selected error action options including stop, flag and continue retry, recalibrate and switch to next method. All data is automatically date and time stamped.
Dimensions (L x W x H):	1100mm x 500 mm x 450 mm.
Environmental Requirements:	Relative Humidity maximum ≤70%, Non condensing.
Technical Standards:	Compliant with legal and ISO requirements for laboratory instrumentation.
Burner Head:	AZ, 100mm, for operation with higher sensitivity in the acetylene/air flame.
Compressed-Air Compressor:	(Purchase locally) Ultra-quiet pressure air compressor to supply AAS with water and oil free air. Nearly vibration free, Minimum service, simple operation, anti corrosion treated, 230V, 50 Hz, including compressed-air tubing.
UPS (for compressor):	3KVA true on-line UPS with 30 minutes back-up.
Ducting System:	Including blower, pipe and connectors (for compressor).
HCL:	As, Cd , Pb, Cr, Mg, Mn , Fe, Zn, Cu (for compressor).
Standards:	CE marked.
Standard Solution:	100 ml standard solution with certificate for lamps, Acetylene Gas cylinder with regulator and gas. Argon gas cylinder with regulator and gas. (Must be obtained locally, not provided by Labomed).
Minimum PC requirements:	Intel Pentium core i3, min 1GB, HDD 300 GB, RS 232 serial external, USB, 48x CD-ROM, keyboard, mouse, 17" monitor, laser printer, XP Pro w/ SP2 or higher. (Purchase locally.)