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Ask us to quote for installation, commissioning and training.

## Atomic Absorption Spectrophotometers

With an ever-increasing awareness of the importance of monitoring trace elements in waters and other matrices there is a continuing requirement to improve the various methods used for detecting their presence. Toxic elements, such as lead and arsenic in drinking and waste waters are closely regulated by various national and international environmental agencies. To analyse for these, and other metallic elements, a sensitive analytical method is required. Atomic Absorption is a traditional method which offers not only precise and accurate measurements but is also very sensitive making this analysis method the preferred technique for environmental monitoring agencies.

- Fully automated atomic absorption spectrophotometer system with titanium alloy burner.
- Excellent stability of optics and electronics
- Self aligning eight hollow cathode lamp motorised turret and pre-heat. Supplied with x1 Hollow Cathode Lamp (Mercury) as standard
- Fully software controlled AAS system
- Simple and intuitive software with on board help and pre suggested operating parameters allowing quick and efficient configuration.
- Features include computer control of gas flows, ignition from the key board, automatic setting of optimum height for burner, auto change over of flame and furnace on combined instruments.
- Two methods of background correction include, self reversal and deuterium lamp.
- Self calibrating Czerny Turner monochromator provides automatic wavelength and band pass set up, with motorised entrance and exit slits.

A769-500



## Specifications

Light source:	Single or multi element hollow cathode lamps.
Wavelength Range:	190 to 900nm with wide range photomultiplier detector
Optics:	Fully sealed single beam configuration improves light throughput intensity with minimal reflective surfaces. 0.1, 0.2, 0.4, 1 and 2nm spectral bandwidths. (5 steps with automatic changeover)
Absorbance range:	-0.3A - 3A
Background Signal:	1.0Abs
Dimensions:	110cm x 50cm x 45cm
Weight:	75Kg
Catalogue No	Description
<b>A769-500</b>	990 flame atomic absorption system with 8 lamp turret, 3 hollow cathode lamps and software.110V/60Hz or 220V/50Hz AC



Graphite furnace for use with AAS. Allows analysis of refractory elements and most metals to ppb levels. Comprises of power supply unit and furnace head which is fully controlled via AA/Win software.

Temperature range:	Ambient - 2650°C
Heating:	Voltage feedback control when drying and ashing. Optical temperature control when atomizing.
Heating program	Up to 9 steps with choices of ramp, temperature increase and full power.

Catalogue No	Description
<b>A769-512</b>	990 graphite furnace atomic absorption system with 8 lamp turret and software. 50 x 50 45cm. 110V/60Hz or 220V/50Hz AC.

Catalogue No	Description
<b>A769-524</b>	990 graphite furnace atomic absorption system with 8 lamp turret and software. 110V/60Hz or 220V/50Hz AC. 990 combined flame and graphite furnace with 8 lamp turret and software. 110V/60Hz or 220V/50Hz AC. 30A 1 phase supply

## Accessories

Catalogue No	Description
<b>A769-530</b>	Graphite furnace sequential 58 position autosampler (50 sample + 8 Standard/QC)
<b>A769-536</b>	Flame sequential 58 position auto sampler (50 sample + 8 Standard/QC)
<b>A769-540</b>	Nitrous oxide gas control box and burner head
<b>A769-544</b>	Water circulator and cooling system for graphite furnace
<b>A769-548</b>	Manual hydride vapour generator complete with heater system and absorption cell
<b>A769-552</b>	Air Compressor 230v 50Hz
<b>A769-556</b>	Acetylene Regulator
<b>A769-558</b>	Nitrous Oxide Regulator
<b>A769-560</b>	Nitrogen/Air/Argon Regulator
<b>A769-572</b>	PC System - for data acquisition and AAS control via software

Graphite Tubes



Graphite furnace auto sampler



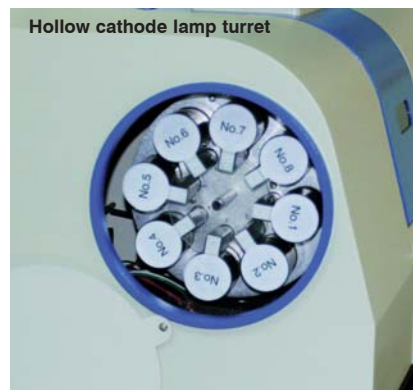
Hollow cathode lamp in use



Graphite furnace head



Hollow cathode lamp turret



## Note:

A wide range of single and multi element hollow cathode lamps are available for this instrument. Please specify at time of enquiry or order, which application the instrument is to be used for and a selection of HCLs will be recommended.

A comprehensive selection of single element 1000ppm standard solutions for AAS are available.

**Please advise your requirements.**

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