



Decisive: The analytical advantages

- Analysis of the unadulterated original samples
- No time-consuming sample digestion
- No dilution effect with substances harmful to health or the environment
- Minimized risk of contamination
- High sensitivity
- Genuine microvolume method (sample volumes in the order of µg or mg)
- Detection limits in the pg and fg ranges

Convincing: The economic benefits

- Speed by saving digestion times and fast measurement times; fast quality inspection and screening
- Cost reduction by low investment and maintenance costs; no expensive high-purity chemicals and equipment for digestion; no waste disposal cost
- Flexibility by quick-and-easy change between analytical methods with identical operating and display concepts
- Efficiency thanks to detection limits otherwise obtainable only with complex, highly expensive equipment
- Simplicity through a basic automated technique that can be implemented in any routine lab

Technical Data of AAS ZEE nit® 60

Photometer:	Single-beam configuration with double-beam baseline stability; fixed, antireflection-coated quartz polarizer of UV-optimized transmission; wide-range photomultiplier
Monochromator:	Optimized Czerny-Turner-monochromator; holographic grating (54 x 54 mm) with 1600 lines/mm, wavelength range 190-900 nm, variable fixed slits 0.2, 0.5, 0.8, 1.2 nm, automatic adjustment of wavelength, slit width and energy
Lamp turret:	Automated 6-place turret for HCLs and SUPERLAMPS (bulb diameter 40 mm); automatic adjustment and lamp selection
Background correction:	Transverse, microprocessor-modulated bipolar Zeeman magnetic field (2 correction modes); 2-field mode: selectable in steps from 0.5 to 1.0 T; 3-field mode: selectable in steps from 0.1 to 1.0 T; measurement frequency 200 Hz
Graphite furnace:	Transverse-heated, semiclosed furnace system with separately controllable gas flows, sensorless adaptive temperature control and emission-independent temperature recalibration (pyrometric quotient method); heating rates up to 3000°/s, atomizing temperatures up to 3000° C
Graphite tubes:	Patented PIN tube/platform system for dissolved samples, tube/carrier system for solid samples
Software:	WinAAS® - flexible control and operating software for instrument and accessories, based on a database system running on Windows NT®; multi-tasking operation; basic package includes "AAS Quality Assurance" module
Power requirements:	Single-phase AC, 200/230/240 V, 50/60 Hz; slow-blow 35 A fuse Consumption 4.3 KVA at 2600° C and 0.8 tesla
Dimensions (W x H x D):	900 mm x 600 mm x 540 mm
Weight:	140 kg
Conforming to standards:	CE standard, instrument safety EN 61010-1-93 Operating temperatures +15 to 35° C, atmospheric humidity: 20 to 80%