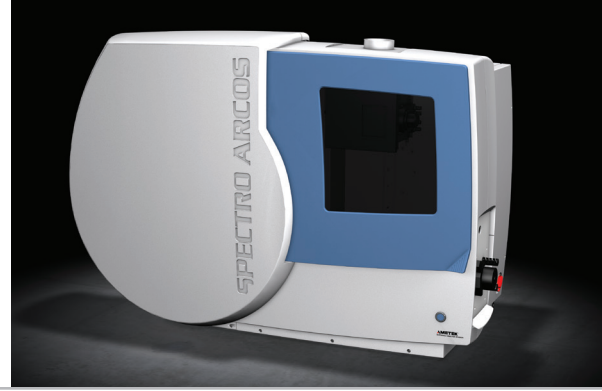


SPECTRO **ARCOS**

TECHNICAL SPECIFICATIONS



Polychromator

- Thermally stabilized to $+15^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$
- ORCA hollow section design in triple Paschen-Runge mounting
- 750 mm focal length
- Holographic concave master grating: $2 \times 3600, 1 \times 1800 \text{ g/mm}$
- Grating material Zerodur
- MgF_2 optical components
- Full 1st order wavelength coverage
- Wavelength range: 130 (160) - 770 nm
- Entrance slits width: $15 \mu\text{m}$

Detector

- 32(29) linear CCD arrays
- 3648 pixels per array
- Optical/pixel resolution: 130(160)-340 nm $8.5 \text{ pm}/3 \text{ pm}, >340 \text{ nm } 16 \text{ pm}/6 \text{ pm}$
- Thermally stabilized optical system ($+15^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$)
- Dynamic range up to 9 orders of magnitude
- Shortest integration time: 0.1 ms
- Shortest measurement time for one analysis: 2 s

UV System

- UV-PLUS system
- Gas (argon) filled hollow section, sealed, no consumable purge gas required
- Dual window entrance optics, easy to maintain
- Automatic gas purifying system
- Lifetime of purifying cartridge: 24 months

RF Generator

- LDMOS solid-state design
- Frequency: 27.12 MHz, free running type
- RF power output: 0.5 to 2.0 kW
- Power efficiency: $>85\%$
- Power stability: $\leq 0.1\%$
- Automatic plasma ignition
- Stand-by mode (low power, low argon)
- Fully computer controlled
- Air cooled (no external cooling required)

Dimensions and Weight

- Spectrometer 1068 x 1582 x 756 mm (HxWxD) (42.1 x 62.3 x 29.8 inch)
- Footprint 1065 x 646 mm (WxD) (41.9 x 25.4 inch)
- Spectrometer approx. 240 kg (530 lb)

Environmental Conditions

- Room temperature: $15\text{-}35^{\circ}\text{C}$ ($64\text{-}95^{\circ}\text{F}$)
- Specified instrument performance at $18\text{-}25^{\circ}\text{C}$ ($64\text{-}77^{\circ}\text{F}$)
- Relative Humidity: $<80\%$ noncondensing
- Atmosphere: Free of corrosive vapors and high dust pollution

Exhaust System Requirements

- Capacity: $2 \times 300 \text{ m}^3 \text{ per h}$ (177 cft/min), separately adjustable between zero and maximum

Argon Supply Requirements

- Grade: 4.6 (99.996%)
- Pressure: 6.5 bar (109 psi)

Electrical Requirements

- 230 VAC $\pm 5\%$, 50/60 Hz
- Approx. 4.0 kVA power consumption
- 30-32 A instrument required line protection (slow blow fuse)



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