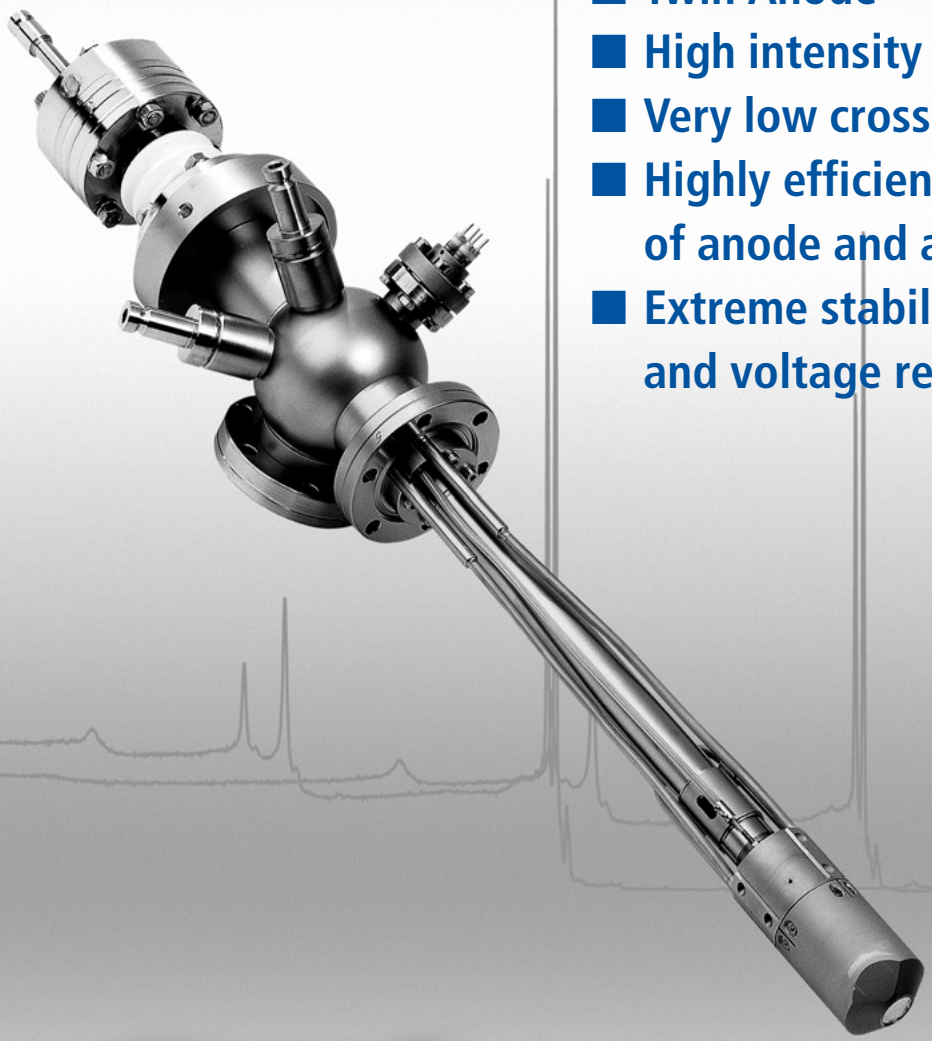
Surface Analysis Technology | Vacuum Components | SPECS® | Surface Analysis System Software | Computer Technology

COMPONENTS FOR SURFACE ANALYSIS

X-ray Source XR 50



- Twin Anode
- High intensity
- Very low cross talk
- Highly efficient water cooling of anode and anode housing
- Extreme stability of power and voltage regulation

SPECS®

X-ray Source XR50

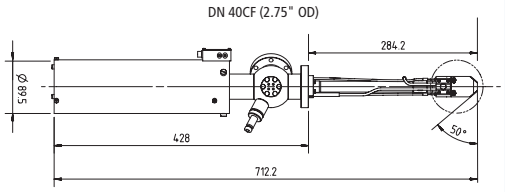
The XR 50 is a new, high intensity twin anode X-ray source optimized for XPS experiments. The anode is made of silver to avoid any CuL_α breakthrough. The electron optical design of the anode, filament and source housing guarantees maximum X-ray intensity and very low cross-talk between the anode faces.
A specially configured nose cone allows maximum access to the sample. A thin aluminium foil window over the end of the x-ray allows the source to be differentially pumped if required.

The source housing may be pumped either via a series of integral direct pumping orifices or via a DN38CF bypass differential pumping port with the direct pumping orifice sealed by a cylindrical sleeve.
In addition to the anode the anode housing is very efficiently water-cooled in order to reduce the damage of the sample by thermal effects during operation. Even during longterm operation the sample temperature is not increased by more than 5°C.

X-ray Source XR 50

Anode	Al/Mg coating on silver, other materials on request
Power	Mg/Al 300/400 W
Cross talk	< 0.35%
Oxygen "ghost" peak	< 2.5%
Sample temperature	increase < 5°C
Magnetic field	at sample below 0.5 µT
Z-retraction	optional, 50 or 100 mm
Bakeout	up to 250°C
Water cooling	3.5 to 5 bar, 3.5 l/min

XR 50 (dimensions in mm)



Controls

Power Unit XRC 1000

Maximum Power	1000 W (15 kV, 66 mA)
Display	anode voltage, emission, filament and anode current, anode power, and respective limits
Interlocks	water flow, vacuum and HV-protection
Remote Control	optional, TTL and CAN-Bus
Soft start	optional
Size	19" (W) × 132mm(H) × 495mm + 10 mm (plug)(D)
Weight	18 kg
Mains Power	90-260V, 50-60Hz, 1300VA

Cooling Control CCX 60

Display	flow rate and water pressure
Interlocks	output for water flow
HV Protection	closed cover for x-ray source and 5 m flexible conduit for water pipes
Water line	particle filter and flow valve
Connection	"Quick Fit" HV cable and water pipe connections
Option	Closed circuit water-cooling system
Size	19" (W) × 132 mm (H)
Weight	15 kg

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