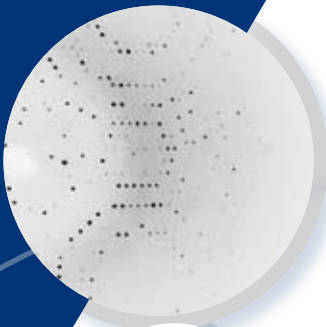
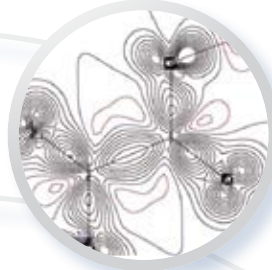


Protein
Crystallography



Small Molecule
Crystallography



μ S Incoatec Microfocus Source

30 W

air-cooled

Quazar multilayer optics

unprecedented
flux density

for Cu and Mo
Ag and Cr

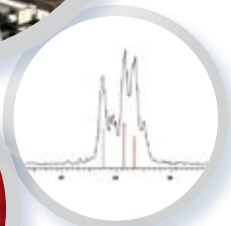
low maintenance



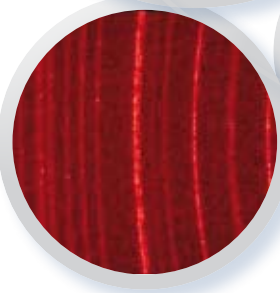
2D focusing or collimating

3 years warranty

High Brilliance Sealed Tube



XRD



SAXS

Incoatec Microfocus Source μ S

high brilliance - small spot - air cooled - 3 years warranty

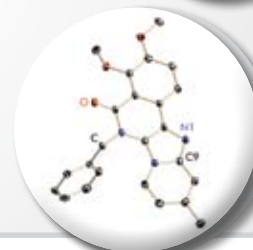
μ S for Protein Crystallography

- Cu anode
- spot size at focus: 0.25 mm FWHM
- flux > $3 \cdot 10^8$ cts/s
- up to 8x more flux density than sealed tube systems with Montel200 mirror
- up to 2x more flux density than 4kW rotating anode with Montel200 mirror
- part of Bruker AXS X8 Prospector Ultra
- ideal for upgrade of older systems like FR591 or RU300
- can be combined with all kinds of 2D detectors



μ S for Small Molecule Crystallography

- Mo anode
- spot size at focus: 0.11 mm FWHM
- flux > $1.3 \cdot 10^7$ cts/s
- up to 6x more flux density than 2kW sealed tube systems
- up to 1.5x more flux density than 4kW rotating anode with graphite monochromator
- best cost-performance ratio
- best for routine structure determination

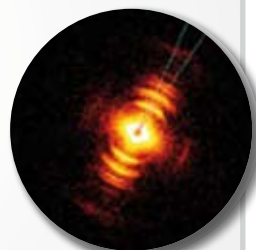
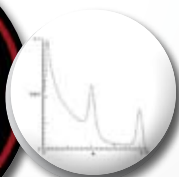
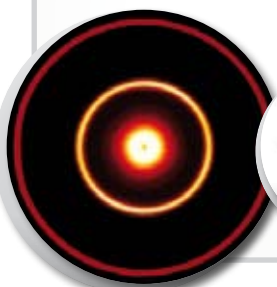


The Incoatec Microfocus Source μ S contains a 30 W microfocus sealed tube with high brilliance and a high-performance 2D focussing or collimating Quazar multilayer mirror, the newest type of Montel mirror. It gives you a performance exceeding that of traditional 5.4 kW rotating anode sources, with the ease of handling of sealed tube systems. It is available for Cu and Mo radiation. The μ S offers numerous other benefits: it does not require water cooling, has no moving parts, has a very long lifetime without maintenance, is extremely stable, is easy to replace, and has low cost of ownership comparable to common sealed tubes. It comes with a generator unit which easily fits into a 19 inch rack, and can be delivered with a collimator system and accessories such as alignment motors or beam analyzer tools. The complete system is radiation safe and vacuum tested.

The compact design makes the μ S an attractive component for many academic and industrial research organizations to upgrade their existing X-ray analytical instruments to cutting-edge performance.

μ S for SAXS

- Quazar optics for parallel beam
- divergence: 0.35 ... 1 mrad available
- 5x more flux than sealed tube systems with cross-coupled multilayer optics
- integrated into Bruker AXS NANOSTAR™

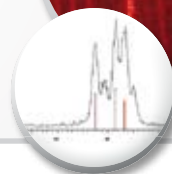
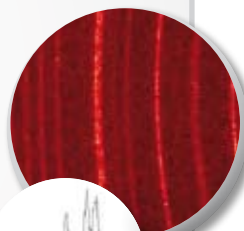
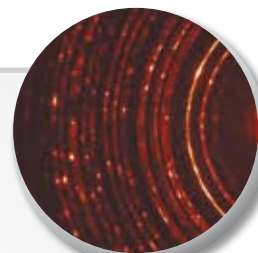


μ S for XRD

- focusing, parallel or hybride (1D foc and 1D par) Quazar™ optics
- measurement in reflection or transmission
- for powders gains of up to 100 compared to sealed tube systems

Applicatons:

- stress, texture, powder
- HR-microdiffraction
- grazing incidence
- outstanding resolution (< 0.1°) in combination with 2D detectors like VÅNTEC-2000



Incoatec GmbH – Your Partner for X-ray Optics and Microfocus Sources: Incoatec was incorporated in 2002 by former members of the GKSS research center in Geesthacht near Hamburg and the Bruker AXS GmbH. We have more than 10 years of experience in X-ray optics based on thin film technology. Incoatec develops and makes all products on-site - Made in Germany. Our Optics are used in X-ray diffractometry, spectrometry and at synchrotron beamlines all over the world.

INCOATEC
innovative coating technologies gmbh

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