



## Primux 100 micro X-ray Source

Primux 100 micro is a new high-performance microfocus sealed-tube X-ray source from Anton Paar which offers premium X-ray beam brilliance at low power. Its clever design ensures high position stability of the X-ray beam, maximum user safety, and straightforward integration into any advanced X-ray equipment.

**The ideal source for up-to-date X-ray analysis!**

## Compact power, brilliant results

The Primux 100 micro microfocus sealed-tube X-ray source combines a new generation X-ray tube with a superior high-voltage generator, thus providing a highly brilliant X-ray beam in a power range of up to 50 Watt.

The X-ray tube is available with the typical target materials Cu, Mo, Ag, or Cr and offers a very small focal spot size of the X-ray beam. The resulting high brilliance makes Primux 100 micro the optimal X-ray source for a wide range of X-ray analytical applications.

## Reliability at its best

The X-ray tube of Primux 100 micro is embedded in a proprietary, water-cooled tube jacket which guarantees high thermal stability. The efficient cooling extends the lifetime of the X-ray tube and results in an excellent position stability of the X-ray beam.

The clever design of the compact tube tower allows you to tightly mount X-ray optics in any customized housing at a minimum distance from the tube center, thus collecting the maximum possible intensity.

## Swift integration with maximum user safety

The Primux 100 micro microfocus sealed-tube X-ray source was developed for straightforward integration into any advanced X-ray equipment.

The robust design of the tube tower and shutter assembly ensures maximum radiation safety for the user by supporting multiple safety circuits. Different integral safety devices like a thermoswitch monitoring the tube temperature guarantee maximum protection and long lifetime of the equipment.

## Easy and smooth operation

The control unit with the high-voltage generator comes in a standard 19-inch rack. The smart user interface of the control unit allows efficient control and monitoring of operating parameters.

Automatic power ramp-up and shutdown routines ensure smooth operation of the maintenance-free X-ray source and high uptime of your X-ray analytical equipment.



## Features and benefits

- Premium X-ray beam brilliance at low power
- High thermal stability by proprietary, water-cooled tube jacket
- Clever design with minimum distance between tube and optics
- Straightforward integration into any advanced X-ray equipment
- Multiple safety circuits for maximum protection of user and equipment
- Robust design for long lifetime
- Easy handling and exchange of X-ray tube
- Maintenance-free, low operating costs

## Technical specifications

Target material	Cu, Mo, Ag, or Cr
Focal spot size (acc. to DIN EN 12543-5)	45 µm diameter (Cu)
Max. power	50 W
Cooling	Water cooling
Dimension (L x W x D)	286 mm x 106 mm x 82 mm
Weight	8 kg (excl. control unit)

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