

Primux 3000



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Primux 3000 is the new high-performance sealed-tube X-ray source from Anton Paar which offers a highly brilliant X-ray beam as a line or point at high power. It provides a robust design, maximum user safety, and straightforward integration into any advanced X-ray device.

The powerful source for advanced X-ray analysis!

High power and high brilliance

The Primux 3000 sealed-tube X-ray source combines a modern X-ray tube with a superior high-voltage generator providing a highly brilliant X-ray beam in a power range of up to 3000 Watt. The X-ray tube is available with all typical target materials such as Cu, Mo, Ag, or Cr and offers a small focus size of the line- or point-shaped X-ray beam. Its high brilliance makes Primux 3000 the optimal X-ray source for a wide range of X-ray analytical applications such as X-ray diffraction (XRD) or small-angle X-ray scattering (SAXS).

Clever design for maximum reliability

The X-ray tube of Primux 3000 is embedded in a proprietary, water-cooled tube jacket which guarantees high thermal stability. The efficient cooling extends the life 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 easily switch between line and point focus. The X-ray tube only needs to be turned by 90° – all cables and cooling water hoses stay mounted.

Straightforward integration with maximum user safety

The Primux 3000 sealed-tube X-ray source was developed for swift 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 such as a thermoswitch monitoring the tube temperature guarantee maximum protection and a long lifetime of the equipment.

Smooth operation and high uptime

The control unit and the high-voltage generator each come in standard 19-inch racks. The smart user interface of the control unit allows efficient control and monitoring of all 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
- High stability of voltage and current
- Easy switch between line and point focus
- High thermal stability by proprietary, water-cooled tube jacket
- Multiple safety circuits for maximum protection of user and equipment
- Straightforward integration into any advanced X-ray equipment
- Robust design for long lifetime
- Easy handling and exchange of X-ray tube
- Maintenance-free, low cost of ownership

Technical specifications

Target material	Cu, Mo, Ag, or Cr
Focal type	Line or point (focus size depending on tube type)
Max. output power	3000 W
Max. output voltage	65 kV direct voltage
Max. output current	55 mA
Cooling	Water cooling
Dimension tube tower (L x W x D)	355 mm x 160 mm x 155 mm
Weight	13.5 kg (with HV cable, excl. control unit)

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