

# 50kV MAGNUM® Cabled

Cabled end-window sources



TUB00046 40kV MAGNUM® reflection cabled side-window

## Applications

- X-ray imaging (CT), fluorescence (XRF) and diffraction (XRD)
- Metal and alloy sorting
- Material structure properties
- Mining and geology
- Environmental analysis
- Lead in paint
- Regulatory (RoHs and WEEE)
- Art and archaeometry
- Small animal imaging
- Security and radiographic inspection

MOXTEK manufactures low-power, miniature X-ray sources for a variety of applications including handheld and benchtop instruments. MOXTEK sources are small, lightweight, and can be integrated into custom enclosures. MAGNUM® X-ray 50 kV source produces high output with a small spot size.

### MECHANICAL SPECIFICATIONS

Tube type: metal-ceramic
Cathode type: tungsten filament
Operating temperature: -10°C to +50°C
Storage temperature: -25°C to +85°C
Cooling: conduction
Weight: 450 g

### TECHNICAL SPECIFICATIONS

Available targets: Ag, Au, Rh, W (equipped with Be window)
HV polarity: grounded anode
High voltage: 4 kV to 50 kV
Beam current: 5 $\mu$ A to 200 $\mu$ A
Maximum power: 10 W
Stability: <1.0% RSD
Input power: 9-12 VDC
Focal spot: 500 $\mu$ m to 800 $\mu$ m (typical)
Average lifetime: 2000 operating hours

### Source Controller Option

FTC-200 Controller (separately sold item). Source can also operate using analog DC signals.

### OTHER FEATURES

- Tube potted in a brass shield
- High voltage power supply
- Standard high voltage wiring length of 292 mm (customizable upon request)
- High voltage insulation-silicone potting