



Advanced Technical Products & Services

P.O. Box 424
Douglassville, PA 19518
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XRD 1000 Series Broad Focus X-Ray Diffraction Tubes Spec Sheet

Technical Data:

Thermal Focus	2.0 x 12.0 mm	Nominal voltage	60 kV, max.
Line focus (viewed at 6° takeoff angle)	0.2 x 12.0 mm	Filament voltage	8 V
Point focus (viewed at 6° takeoff angle)	2.0 x 1.2 mm	Filament current	3.6 A, max.

Tube Power:

for Mo, W	2700 W
for Cu, Ag	2700 W
for Cr	2700 W
for Co	2700 W
for Fe	2200 W

Cooling Requirements:

Min. Water Flow	3.5 l/min
Max. Water Temp.	35° C
Max. Water Pressure	0.8 MPa

Inherent Filtration: 300 µm Be Window

Ordering Information:

Part Number	Description	Part Number	Description
XRD 60 20 CUS	XRD 60-20 Cu S Copper target, short anode	XRD 60 20 CUL	XRD 60-20 Cu L Copper target, long anode
XRD 60 20 WS	XRD 60-20 W S Tungsten target, short anode	XRD 60 20 WL	XRD 60-20 W L Tungsten target, long anode
XRD 60 20 MOS	XRD 60-20 Mo S Moly target, short anode	XRD 60 20 MOL	XRD 60-20 Mo L Moly target, Long anode
XRD 60 20 CRS	XRD 60-20 Cr S Chrome target, short anode	XRD 60 20 CRL	XRD 60-20 Cr L Chrome target, Long anode
XRD 60 20 COS	XRD 60-20 Co S Cobalt target, short anode	XRD 60 20 COL	XRD 60-20 Co L Cobalt target, Long anode
XRD 60 20 FES	XRD 60-20 Fe S Iron target, short anode	XRD 60 20 FEL	XRD 60-20 Fe L Iron target, Long anode
XRD 60 20 AGS	XRD 60-20 Ag S Silver target, short anode	XRD 60 20 AGL	XRD 60-20 Ag L Silver target, Long anode



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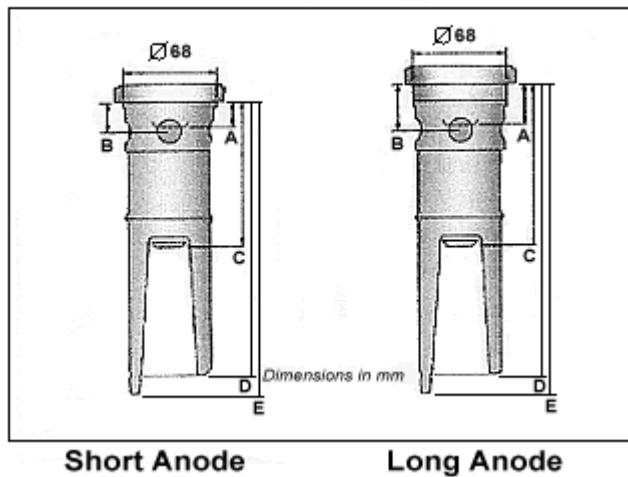
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Dimensions



Dimension	Short Anode	Long Anode
A	17.3 mm	30.1 mm
B	21 mm	34 mm
C	105 mm	118 mm
D	194 mm	207 mm
E	213 mm	226 mm

100% Replacement Warranty

In the unlikely event that an XRD 1000 tube should fail due to material or workmanship within the first twelve months or 2500 hours of operation, whichever occurs first, the XRD tube will be replaced.