The Oxford Instruments 3000 Series X-ray tube has been developed for high flux stability and long life, making it ideal for continuous operation.

A low cost answer for high spectral purity radiation, the 3000 Series is encapsulated in silicone rubber and features a grounded cathode and low attenuation Beryllium window.

Features	Benefits		
Continuous operation	High sensitivity and high		
	precision measurement		
Beryllium window	Higher flux of low-energy		
	X-rays, especially from target		
	L series lines		
Compact, insulated	Configuration allows		
light-weight package	flexible installation		

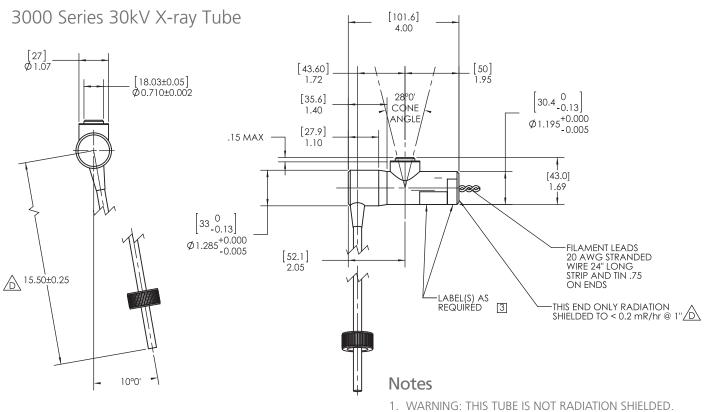


Applications

- Analytical (XRF) Particle Analysis
- Soft X-ray Radiography
- Spectroscopy
- Thickness Gauging
- Stress Analysis

Specifications				
Operating Voltage Range:	4-40kV depending on product.			
Maximum power:	See product ordering table.			
Maximum beam current:	See product ordering table.			
Maximum filament current:	1.3 - 2.0A depending on product.			
Filament voltage:	1.75V (nominal)			
Focal spot size:	1.0mm (nominal)			
Focus to Object Distance (FOD):	28.2mm (1.1")			
Target material:	See product ordering table.			
Window material and thickness:	Be @ 127µm			
Unobstructed cone of illumination:	28°			
Unobstructed window diameter:	10.4mm (.41")			
Shielding:	Unshielded			
Weight:	260g typical			
Cooling method:	Forced air: 150CFM @ 100mm (4.0") and appropriate heat sink recommended for full power			
Maximum operating temp:	50°C at potting surface			
Ambient operating temp:	0°C to 40°C			
Storage conditions:	-40°C to 70°C*			
	*Note: Barometric Pressure: 50-106kPa			
	Humidity: 10-90% (no condensation)			
	Condensation on Be window will cause window			
	corrosion, vacuum loss, and X-ray tube failure			





2. DIMENSIONS ARE IN INCHES. DIMENSIONS [] ARE IN MM.

Product Ordering Table

Part Number	Outline Drawing	Target	Operating Range (kV)	Max Anode Current (mA)	Max Anode Power (W)	Max Filament Current (A)	Spot Size (µm)**
90004	8145	W	4 - 30	0.5	15	1.3	1000 Тур.
90020	8052	Ti	4 - 30	0.5	15	1.3	1000 Тур.
90036	8053	W	4 - 30	0.3	9	1.3	1000 Тур.
90042	8195	Mo	4 - 30	0.5	15	1.3	1000 Тур.
90053	8204	Mo	4 - 15	1.0	15	1.3	1000 Тур.
90057	8156	Au	4 - 30	0.5	15	1.3	1000 Тур.
90116	8053	W	4 - 30	0.2	6	1.3	1000 Тур.
90118	8052	Fe	4 - 10	1.5	15	1.3	1000 Тур.
90145	8054	Pd	4 - 40	0.3	9	2.0	1000 Тур.
90146	8057	W	5 - 13.6	2.0	27.2	2.0	1000 Тур.
90151	8063	Rh	4 - 30	0.3	9	2.0	1000 Тур.
90152	8063	Ag	4 - 30	0.3	9	2.0	1000 Тур.
90153	8063	Mo	4 - 30	0.3	9	2.0	1000 Typ.

Note: Part number specific copies of outline drawings and product specification sheets are available. **Max. = Maximum, Typ. = Typical, Nom. = Nominal (per IEC60336,NEMA XR5-1999)

Visit xray.oxinst.com or xray-sales@oxinst.com for more information.

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