

Series 5000

Packaged X-Ray tubes



Oxford Instruments' Series 5000 is a highly popular and proven side window X-ray tube. Currently in use for many industrial applications, the 5000 series features an electron gun assembly packaged in a stainless steel lead-lined package with a choice of mounting flange. The package is filled with an Oxford Instruments designed cooling oil that maximizes heat dissipation.

The package can be supplied with a high voltage well connector and a triax connector for the filament supply. The tube is to be operated in a positive anode mode with the cathode grounded. The standard exit window is 0.005 inch Beryllium.



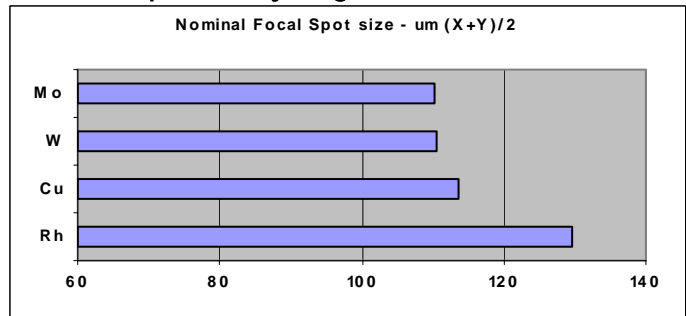
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Specifications

Feature	Series 5000
Max Anode Current	1.0 mA
Max Anode Voltage	50 kV
Maximum Power	50 W continuous
Nominal Filament Voltage	2.0 V @ 50 kV, 1 mA
Max Filament Current	1.7 A
Stability	0.2% over 4 hours
Focal Spot Size (Nominal*)	110 µm
Anode Material	W, Mo, Rh (other materials available)
Be Window Thickness	125 µm (75 µm, 250 µm options available)
Approximate Weight	4 lbs (1816 g)
Cooling Method	Forced air @ 150 CFM
Cone Angle	25°

*nominal per IEC336, JISZ47045, NEMA

Minimum Spot Size By Target Material at 50 W



Packaging provides X-ray shielding to .25 mR/hr @ 2 inches.*

*Except at high voltage connection. See radiation map for details.

Maximum package temperature not to exceed 55 degrees Celsius.

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