

Apogee

Packaged X-Ray Tubes



Oxford Instruments' Apogee is a highly popular and proven side-window X-ray tube. Currently in use for many industrial applications with special emphasis on X-ray imaging applications, the Apogee features an electron gun assembly capable of producing very small focal spots.



The tube is operated in a positive anode mode with the cathode grounded. The standard exit window is 0.005 inch Beryllium, and many different target materials are available.

To achieve a nominal 35 micron focal spot*, the Apogee should be used with the Oxford Instruments 5000G high voltage power supply. The recessed Be window allows for 17 mm X-ray focal spot to window distance making this X-ray tube highly suited for use with X-ray optics.

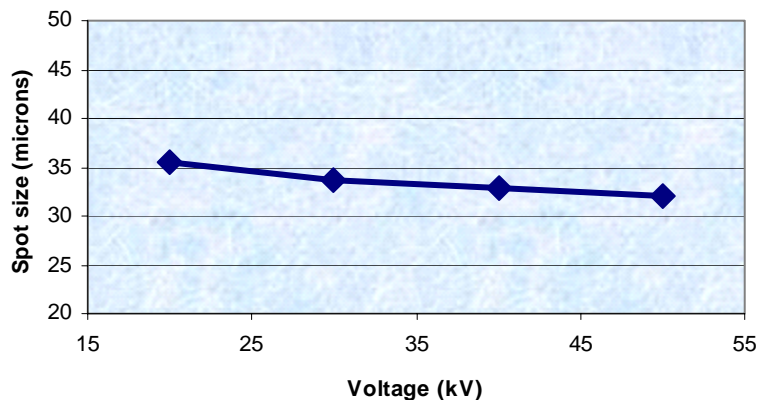
The Apogee is a variable focus X-ray tube allowing for ultimate consistency in X-ray focal spot from X-ray tube to X-ray tube.

Specifications

Feature	Series 5000
Max Anode Current	1.0 mA
Max Anode Voltage	50 kV
Maximum Power	50 W continuous
Nominal Filament Voltage	2.2 V @ 50 kV, 1 mA
Max Filament Current	1.7 A
Stability	0.2% over 4 hours
Focal Spot Size (Nominal*)	35 μ m
Anode Material	Choice of W, Mo, Cu
Dimensions	163.4 mm length by 69.8 mm diameter
Approximate Weight	4 lbs (1816 g)
Cooling Method	Forced air @ 140 CFM
Cone Angle	22°

*nominal per IEC336, JISZ47045, NEMA

Minimum Spot Size By Voltage at 50 W



Maximum package temperature not to exceed 55 degrees Celsius.