

# Series 5000 Apogee

## Unpackaged X-Ray Tubes



Oxford Instruments' Series 5000 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 5000 series features an electron gun assembly capable of producing very small focal spots.

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

To achieve a nominal 35 micron focal spot\*, the Apogee must 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

Anode current	0 to 1.0 mA
Anode (target) voltage	4kV to 50kV
Maximum power	50 watts continuous
Filament voltage	2.2V @ 50kV/1mA
Filament current	1.7 amps
Stability	0.2% over 4 hours
Focal spot size (nominal*)	35 microns*
Target material	Choice of W, Mo, Cu
Cathode type	W filament
Dimensions	3.3" X 1.2" approx.
Weight	.25 lbs. (550 grams)
Cooling method	Oil immersion
Matching Power supply	OI 5000G 50kV/1mA

\*nominal per IEC336, JISZ47045, NEMA XR5

Minimum Spot Size By Voltage at 30 W

