



CAT3 cooled anode transmitting triode



This valve measures 650x170mm overall (68mm across the glass). The anode section measures 280x50mm.

This is a liquid cooled anode triode with a bright emitter tungsten filament. Water cooling at not less than 2.5 gallons per minute is required. The anode and filament seals require air cooling, and there needs to be air blast cooling of the grid seal as well. See also [CAM3](#)

Filament voltage	18 to 20V
Filament current	50A approx.
Max anode voltage	10kV
Max continuous anode dissipation	5kW
Total emission (90% saturation)	5A
Amplification factor *	40
Anode impedance *	10k ohms
Max input (wavelengths > 100m)	10kV / 1A
Max input (wavelengths down to 15m)	8kV / 1A

*: At $V_a=10kV$, $V_g=0$

Markings on the valve indicate 18.4V filament for 5.3A emission at 90% saturation. The serial number is 255.





Above: Filament leads and air cooling connection. Below: Internal structure.

