



Product name:
Electron Diffraction Tube S

Product code:
CIVIL-AMT-118-0002



Description

Electron Diffraction Tube S

Technical specification

Highly evacuated electron tube for demonstrating the wave nature of electrons through the observation of interference caused by passage of electrons through a polycrystalline graphite lattice (Debye-Scherrer diffraction) and rendered visible on a fluorescent screen.

EHT Power Supply

Digital Meter with two shunts included

Also intended for determining the wavelength as a function of the anode voltage from the radius of the diffraction rings and the lattice plane spacing of graphite, as well as confirming

de Broglie's hypothesis. Instructions included

Max. anode voltage: 5 kV

Anode current: approx. 0.1 mA at 4 kV

Max. filament voltage: 6.3 V AC

Lattice constant of graphite: $d_{10} = 0.213 \text{ nm}$; $d_{11} = 0.123 \text{ nm}$.



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