1



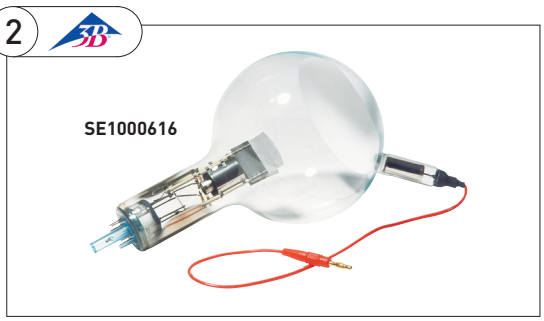
1. Triode Tube

High-vacuum electron tube with thermionic cathode and control grid for demonstrating the thermoelectric effect (Edison effect). Use the tube to investigate the practical applications of a triode as an amplifier and generating undamped oscillations in LC circuits. Also investigate the characteristics of triodes and let students discover the negative electron charge polarity.

- Max. heater voltage: 7.5V AC/DC
- Max. anode voltage: 500V
- Anode current: approx. 2mA at 200V

Code	Description	Pack	Price
SE1000614	S type	Each	**£461.98**
SE1000647	D type	Each	**£613.19**

2



2. Perrin Tube

Highly evacuated electron tube with focusing electron gun and fluorescent screen inclined relative to the beam axis so that the path of the beam can be seen and the effects of electric and magnetic fields can be studied. The electron beam can be deflected using two methods: electrically using electric field of the built-in plate capacitor, or magnetically using external Helmholtz coils. Also determine the fundamental electron charge-to-mass ratio (e/m) and study mean electron velocities using field cancellation.

- Max. filament voltage: 6.3V AC
- Max. anode voltage: 5kV
- Max. capacitor voltage: 500V
- Anode current: approx. 0.1mA at 4kV

Code	Description	Pack	Price
SE1000616	S type	Each	**£538.80**
SE1000650	D type	Each	**£605.51**

3



3. Auxiliary Coil for Perrin Tube

The auxiliary coil can be used to apply crossed magnetic fields vertically with respect to the tube axis, if the coil is mounted on the universal holder between the Helmholtz coils. Such fields can be used to demonstrate the horizontal deflection of cathode rays in the Perrin tube and, thus, the basic principles of a cathode-ray oscillograph, for example in generating Lissajous figures.

- Number of coil turns: 1000
- Load rating: max. 2.0A
- DC resistance: approx. 7.2Ω
- Connections: 4mm safety jacks

Code	Pack	Price
SE1000645	Each	**£203.99**

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