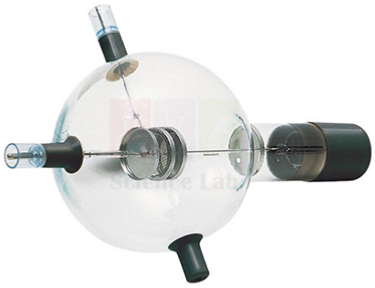
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Product Name :

Electron Tube Diode D

Product Code :

SLE/PHY/304



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Description :

Electron Tube Diode D (Product Code: SLE/PHY/304) is a thermionic diode tube from the D range used to demonstrate thermionic emission and the one-way flow of electrons in college and senior school physics laboratories. The D range is the original series, with the electrical connections fixed on the tube itself, and a diode of this kind is the classic vacuum tube characteristics experiment. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Key Details

Parameter	Detail
Product type	Thermionic diode demonstration tube
Range	D range (connections fixed on the tube)
Operating data	Heater and anode ratings confirmed on the specification sheet sent with your quotation
Tube family	D type
Product code	SLE/PHY/304
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Electron Tube Diode D Used For?

Inside a thermionic diode, a heated cathode releases electrons into the vacuum. They reach the anode only when it is positive with respect to the cathode, so current flows in one direction and not the other. This is the principle behind early valve rectifiers, and it lets students see the link between thermionic emission and rectification in a single piece of apparatus.

In a typical practical, the class varies the anode voltage in steps, records the anode current, and plots the characteristic curve to see how the current rises and then levels off. The tube is fragile evacuated glass, so a teacher or technician should mount it, make the connections to its fixed D-range terminals and switch the supplies on and off.

Manufacturer

Jain Scientific Equipments Private Limited, which trades as ScienceLab, manufactures the Electron Tube Diode D in Ambala, Haryana, India, for colleges, universities and schools that teach thermionic emission. We confirm the current specification and the holder and supplies the tube needs as part of every quotation. More about the company is on our company profile.

Related Physics Lab Equipment

Items that complete a thermionic diode practical or offer an alternative:

- Electron Tube Diode S — the S-range diode, whose connections sit on the stand.
- Electron Tube Holder D — mounting for D-range tubes.

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