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Product Name :

Hydrogen Spectrum Set

Product Code :

SCL/AG26-108



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Description :

Hydrogen Spectrum Set (Product Code: SCL/AG26-108) is a three-unit set of a hydrogen-filled discharge tube, its power supply unit and a support rod assembly, used to produce the line spectrum of hydrogen for study in college and senior school physics laboratories. The self-contained power unit delivers 3kV at 3mA, and the tube's metal end cap is fully hidden to protect users from accidental contact. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Set composition	Three units: discharge tube, power supply unit, rod assembly
Discharge tube	Straight pattern, filled with hydrogen, capillary length 50mm
Tube connections	4mm plug at each end; metal end cap completely hidden to avoid shocks from touch
Power unit output	3kV and 3mA, rms, 50 Hz
Power unit top (metal)	ON/OFF switch, pilot lamp, 1A fuse, rod assembly and recessed rubber socket that takes the tube and makes contact with the live side of the circuit
Rod assembly	Screw-in support rod, 260mm long, with a horizontal rod at its upperend secured and adjusted by a lock-screw, and a 4mm aperture fortube connection
Power unit housing	Plastic box, 168mm x 92mm x 85mm (length, height, width), on four plastic feet
Also included	Tommy-bar that screws into the power unit top
Product code	SCL/AG26-108
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Hydrogen Spectrum Set Used For?

When the power unit is switched on, the high voltage makes the hydrogen in the capillary glow. Viewed through a direct-vision spectroscope, diffraction grating or prism spectrometer, the light splits into a few sharp coloured lines, red, blue-green and violet, instead of a continuous rainbow. This line spectrum is the classic evidence that electrons in atoms occupy fixed energy levels, and it leads directly to the Balmer series and the Rydberg equation.

Set the tube upright in the rubber socket, clamp its top in the horizontal rod, and line the glowing capillary up with the slit of your spectrometer to measure line positions. Always switch off before inserting or removing a tube, let the tube cool after use, and keep the session under teacher supervision because the unit works at 3kV.

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