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Product Name :

Voltameter

Product Code :

SLE/CH/179



Description :

Voltameter (Product Code: SLE/CH/179) is a compact electrolysis unit with platinum electrodes and two graduated test tubes of 10ml capacity, mounted on a base with terminals for connection to a direct-current supply. Teachers use it to split water into its gases and let students compare the volumes collected at each electrode, making it a dependable piece of electrolysis apparatus for Indian school and college laboratories. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Electrodes	Platinum
Gas collection	Two graduated test tubes
Tube capacity	10ml each
Mounting	Mounted on base with terminals

Typical Use

For the classic electrolysis of water, water made conductive by a little dilute acid is placed around the electrodes, the two graduated tubes are filled completely and inverted over the platinum electrodes, and a low-voltage DC supply is connected to the terminals. Bubbles rise at both electrodes almost at once, and after a few minutes students can read the volumes directly from the graduations: the tube over the negative electrode collects hydrogen at roughly twice the volume of oxygen gathered over the positive electrode.

Platinum is used because it is inert and is not eaten away during electrolysis, so the only products are the gases themselves and the electrodes last for many sessions. The unit also supports simple quantitative work, such as showing that the volume of gas grows with the time the current flows. Switch off the supply before either tube empties completely, confirm the gases with a glowing or lighted splint away from the supply, and rinse the apparatus with clean water after the lesson without touching or bending the electrodes.

Manufacturer

This voltameter is made by Jain Scientific Equipments Private Limited, the Ambala, Haryana manufacturer that trades as ScienceLab and builds electrochemistry and general science apparatus for educational laboratories. More about the company is available on our company profile.

Related Chemistry Lab Equipment

Useful items for powering the voltameter or extending electrolysis work:

- Power Supply Variable — a DC source that lets students vary the current and compare gas output

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