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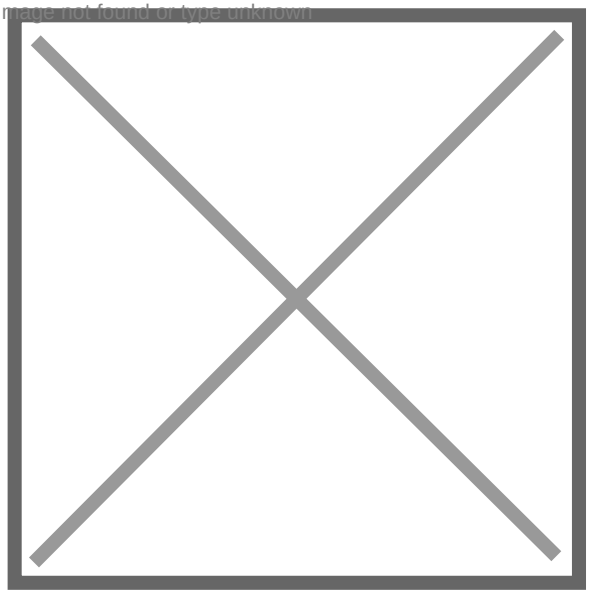
Product Name :

Water Electrolysis Apparatus (Hoffman Voltameter)

Product Code :

SCI-552/03

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Description :

Water Electrolysis Apparatus (Hoffman Voltameter) (Product Code: SCI-552/03) is a glass electrolysis cell used to split water into hydrogen and oxygen and compare their volumes inschool and college chemistry laboratories. It has three glass tubes, two of them graduated 25 mltubes with tempered glass taps, and stands 600–650 mm tall, making it a classic piece ofelectrolysis apparatus for demonstrations. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer and laboratory instruments supplier in India, at its ownfactory in Ambala.

Specifications

Parameter	Detail
Glass tubes	3 – two graduated (scaled) tubes and one reservoir tube (listed as “with poc”)
Graduated tubes	25 ml each, with 1 mm scaling
Electrodes	Carbon and platinum carbon electrodes (as listed)
Taps	Tempered glass taps
Connections	Electric conductor wires
Height	600–650 mm
Product code	SCI-552/03
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Hoffman Voltameter Used For?

The Hoffman voltameter shows that water can be decomposed into its elements by an electric current. The tubes are filled through the reservoir with water made conductive by a little electrolyte; when a low-voltage DC supply is connected through the conductor wires, hydrogen collects above the cathode and oxygen above the anode. The graduated tubes let students read that about twice as much hydrogen forms as oxygen, which supports the formula H_2O.

Opening each glass tap releases a gas for simple identification tests: hydrogen burns with a squeaky pop, and oxygen relights a glowing splint. The apparatus also introduces the language of electrochemistry — anode, cathode, electrolyte — and Faraday’s laws. Clamp it securely in a stand, use eye protection and test only small amounts of gas at a time.

What to Specify When Ordering

- Electrodes: the product data lists carbon and platinum carbon electrodes, so state which you need.
- The number of apparatus required for demonstration benches or student groups.
- Whether a stand, clamps and a DC power supply should be quoted too, as they are not listed with the apparatus.

OEM

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