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Product Name :

Wimshurst Electrostatic Machine (for lyceum)

Product Code :

SCL2301/031



Description :

Wimshurst Electrostatic Machine (for lyceum) (Product Code: SCL2301/031) is a high-voltage influence machine of the Wimshurst type for upper-secondary physics. Two plastic discs, 20 cmin diameter and carrying tinfoil sheets, rotate in opposite directions; brushes collect the separated charge and store it in two condensers (Leyden jars), whose electrodes connect to a pair of metal discharger rods with an insulated handle. Adjusting the gap between the rods produces bright sparks that make static electricity dramatic and memorable. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, as a centrepiece physics demonstration kit for electrostatics in India's senior classes.

Specifications

Parameter	Detail
Type	High-voltage electrostatic generator
Discs	Two plastic discs with deposited tinfoil sheets, rotating in opposite directions
Disc diameter	20 cm
Charge collection	Two sets of brushes collect the charge and store it in two condensers
Condensers	Two Leyden (Leiden) jars
Discharger	Condenser electrodes connected to two metal rods with an insulated handle; the distance between the rods can be varied
Main parts	Two discs, two Leyden jars, collector combs (listed as crests), brushes, dischargers and support

Typical Use

As the discs turn, charge builds up in the two Leyden jars until it jumps the gap between the discharger rods as a visible, audible spark. Teachers vary the rod separation to show that a larger gap needs more charge — and more turns of the discs — before a spark appears, which opens a discussion on potential difference and the breakdown of air. The machine also powers other electrostatics demonstrations: connected to an electrostatic plume it makes field lines stand out, it charges an electroscope from a distance, and it can illustrate lightning and point discharge in a simple, controlled way.

Electrostatic machines work best in dry conditions, so wipe the discs and jars with a clean dry cloth and keep the machine in a dry room before use. Always discharge the jars by bringing the discharger rods together, using the insulated handle, before touching any part of the machine, and keep students at a sensible distance during spark demonstrations; anyone with an implanted medical device should stay well clear.

Manufacturer

The machine is built by Jain Scientific Equipments Private Limited, the Ambala, Haryana firm that sells out more