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Product Name :

Electric Field Apparatus

Product Code :

SLE/EAM/15



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Description :

Electric Field Apparatus (Product Code: SLE/EAM/15) makes invisible electric fields visible: fine particles floating on liquid paraffin in a 90 mm petri dish line up along the field between a pair of electrodes once a high voltage is applied. Built on a clear acrylic base that can go straight ontoan overhead projector, it is a simple physics demonstration kit for showing the field patterns of various electrode configurations to a whole class. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Type	Electric field pattern demonstration model
Dish	90 mm petri dish, filled with liquid paraffin in use
Electrodes	Various electrode configurations
Connections	4 mm terminals for the high-voltage supply
Base	Clear acrylic, allows projection with an overhead projector
Dimensions	150 x 150 x 60 mm
Supply required	Safe, low-current limited 0–5 kV EHT supply
Not supplied	Semolina or fine grass seed

Typical Use

Pour a shallow layer of liquid paraffin into the petri dish and sprinkle semolina or fine grass seed evenly over the surface. With the EHT supply switched off and turned to zero, connect it to the 4 mm terminals, then raise the voltage slowly: the grains swing round and settle into chains that trace the field lines between the electrodes. Changing the electrode arrangement lets students compare how the pattern differs from one configuration to the next, noting where the lines crowd together and where they spread out, and link each picture to the idea of field strength.

Set on an overhead projector, the acrylic base throws the pattern onto the screen so everyone sees the same result, making this a useful piece of physics lab equipment for introducing electric fields before any calculation. Only use a current-limited EHT supply, make every change to the electrodes with the supply switched off, and clean the paraffin out of the dish after the lesson.

Manufacturer

The apparatus is manufactured by Jain Scientific Equipments Private Limited in Ambala, Haryana, and sold under the company's ScienceLab brand. For purchase departments completing vendor forms, the company's GSTIN is 06AAECJ8618A1ZT and its Legal Entity Identifier is 3358004HRD1JIVXKYX49. See the company profile for more.

Related Electricity and Magnetism Equipment

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