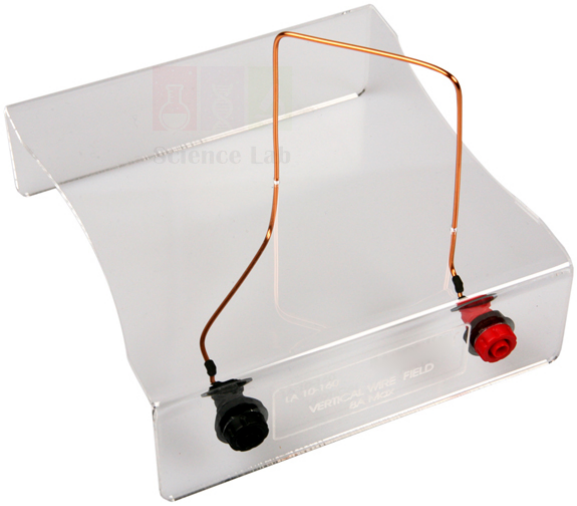
Email : sales@scilabexport.com
Phone: +91-7082934803

Product Name :

Magnetic Field Unit Vertical Wire

Product Code :

SLE/EAM/10



Email : sales@scilabexport.com
Phone: +91-7082934803

Description :

Magnetic Field Unit Vertical Wire (Product Code: SLE/EAM/10) is a clear acrylic base with a straight conductor passing vertically through it, used to reveal the circular magnetic field around a current-carrying wire with plotting compasses or iron filings. It belongs to a small electromagnetic kit for schools made up of three field units, and its transparent base works on the bench or on an overhead projector for whole-class viewing. The unit is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Type	Vertical wire field unit
Base	Clear acrylic, 150 x 150 x 45 mm
Connections	4 mm sockets
Viewing	Suitable for bench or overhead projector use
Field detection	Used with plotting compasses or iron filings
Supply requirement	DC power supply capable of providing 5–8 A
Series	Three types: 15 turn long solenoid, vertical wire field and twin vertical coils
Twin coil model (for comparison)	Single-turn coil rated 8 A max; 5-turn coil rated 5 A max

Typical Use

With the wire connected to a high-current DC supply, students sprinkle a thin layer of iron filings on the acrylic base and tap it gently; the filings settle into concentric rings centred on the wire. Replacing the filings with a ring of plotting compasses shows the direction of the field, and reversing the supply leads makes every needle swing round, which is the ideal moment to introduce the right-hand grip rule. Placed on an overhead projector, the same pattern is thrown onto the screen so the whole room can follow it.

Because the unit needs 5 to 8 A to give a clear pattern, switch the current on only while observing and off again straight after, so the wire and supply stay cool. As a magnetism experiment it pairs naturally with the solenoid and twin-coil versions in the same series, letting students compare the field of a single straight wire with that of a coil. Brush filings onto a sheet of paper afterwards and keep them well away from the sockets.

Manufacturer

This field unit comes from Jain Scientific Equipments Private Limited, which trades as ScienceLab and manufactures physics apparatus in Ambala, Haryana. Institutional and tender buyers who need vendor registration details can quote GSTIN 06AAECJ8618A1ZT and LEI 3358004HRD1JIVXKYX49. The company profile has further information.

Rela

A cor

Email : sales@scilabexport.com
Phone: +91-7082934803