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Product Name :

Teltron Helmholtz Pair of Coils S

Product Code :

SLE/PHY/48



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Description :

Teltron Helmholtz Pair of Coils S (Product Code: SLE/PHY/48) is a pair of coils used to generate a uniform magnetic field perpendicular to the axis of a Teltron S-series electron tube in physics laboratories. Each coil has 320 turns on a 138 mm diameter and carries 1.0 A continuously, giving a maximum field of approx. 9 mT for bending electron beams in e/m experiments. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, with its wider range of physics lab equipment in India.

Specifications

Parameter	Detail (each coil)
Number of turns	320
Coil diameter	138 mm
Terminals	4 mm safety sockets
Load rating	1.0 A continuous operation; 1.5 A short-term operation
Effective impedance	Approx. 6.5 ohm
Max. field strength	Approx. 9 mT
Field direction	Perpendicular to the tube axis; vertical or coaxial arrangements possible with the Teltron Tube Holder S
Supplied as	Pair of coils, with instructions
Product code	SLE/PHY/48
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Are Helmholtz Coils Used For?

Mounted on the Teltron Tube Holder S, the two coils sit either side of the tube so that a current through them bends the electron beam into an arc or circle. From the coil current, number of turns and diameter, students calculate the field strength and combine it with the accelerating voltage and beam radius to find the specific charge of the electron — the heart of any EM ratio apparatus set-up in Indian physics laboratories.

The holder also lets the coils be set at variable distances, or arranged to give a vertical or coaxial field relative to the tube axis, so the same pair serves experiments that need a different field direction. Keep the current at or below 1.0 A for long runs and use the 1.5 A rating only briefly; an ammeter in series makes it easy to stay within these limits.

What to Specify When Ordering

- Whether you need the Teltron Tube Holder S on which the coils are configured.
- A DC supply and ammeter for the coil current, suited to 1.0 A continuous operation.
- Which S-series tubes you will use with the coils.

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