PHYSICS

Effective Laboratory Supplies

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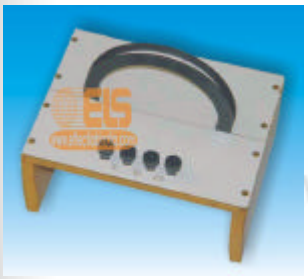
Administrative Office:
Phone: + 91 - 171 - 2655247, 6535247
Fax: + 91 - 171 - 2652506
Website: http://www.effectlabindia.com
Email: info@effectlabindia.com, effectlabo@gmail.com

# Induction Coils



**Magnetic Field Table** (ELP.111.207)

A Wooden Table supports an aluminum ring wound by three coils of 18 S.W.G., enamelled copper wire of 5, 10 & 20 turn respectively, connected to bakelite 4 mm socket terminal at one edge of the board.

Dimensions
Table : 400 x 275 x 90 mm high
Outside dia. of coil former 140 mm
Overall height of apparatus 170 mm

**Torsion Balance "Coulomb's"** (ELP.111.208)
This apparatus is used for verification of colulomb 's law that the force with which two magnetic poles attaract or repel each other is inversely proportional to the square of their distance apart

**Induction coil dissectable** (ELP.111.215)
Most suitable for demonstration. Secondary coil and capacitor can be easily separated out. With arrangements for disconnecting the capacitor, while in uperation. All connections clearly visible. Spark length 25mm.

**Induction coil** (ELP.111.216)
Adjustable vibrating arm, with tungsten contacts and coil with core mounted on rigid base Biased off switch to prevent continuous running. Input voltage 6V d.c. at 2A via 4mm. socket terminals. Spark length obtainable in air,5 mm.

**Induction coil (Ruhmkorff's)** (ELP.111.217)
The traditional induction coil capable of producing a spark length of up to 30mm. with an input of 6 to 8V d.c. and is therefore ideal for use with vacuum tubes, eudiometers, etc. A fully adjustable trembler system is incorporated and spark suppression capacitors are housed in the base. A pair of 'disc and point' electrodes are supplied with the instrument, the point electrode having an insulating handle for adjustment of the spark gap. Low voltage input is via a pair of baseboard mounted 4mm. sockets.

**Induction coil** (ELP.111.218)

Box form, coils are wound from insulated copper wire and paraffin wax insulation is provided throughout, with condenser, in polished case adjustable tembler break, with special alloy contacts. With switch allowing primary current to be reversed and removable discharge points. Complete with on/off switch for primary and two bakelite terminals lock type for input.

Spark in air
in mm.

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.01 10
.02 15
.03 20
.04 25
.05 37
.06 50
.07 75
.08 100

**Induction coil** (ELP.111.219)

Electronic solid state induction coil but withourt vibrator, fitted with reversing switch, operates on 220V A.C. + 15%

| | Spark mm. |
|---|---|
| .01 | 25 |
| .02 | 50 |
| .03 | 75 |
| .04 | 100 |

**Search coil** (ELP.111.220)
Mean dia. 10 mm., 100 turns & 25 ohms resistance.

**Search coil axial** (ELP.111.221)
Consists of 5000 turns of copper wire mounted axially.

**Search coil lateral** (ELP.111.222)
Same as per **Cat. No. ELP.111.222** but with coil mounted laterally.

**De La Rive apparatus** (ELP.111.223)
Showing the rotating effect caused by the magnetic polarity on the discharge path from above electrode to the circular ring electrode in the middle. When polarity in the electromagnet is reversed, the rotating effect is reversed.

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