

DISSECTIBLE TRANSFORMER - large

Cat: EM1660-001 220/240V.AC. 50/60Hz.

DESCRIPTION:

The IEC **Dissectible Transformer** is a very useful instrument for the teaching of transformer theory and many other AC phenomena. It is designed to be strong and have a long life. The standard kit contains:

- 1x 'U' and 'I' laminated core, 35x35mm section, with feet for stability.
- 1x Strong clamp with integral carry handle.
- 1x Primary coil, mains voltage, with on/off switch and removable mains cable.
- 1x Secondary coil, low voltage with tapings for adding and subtracting voltages.
- 1x Spot welding coil with handles.
- Quantity of metal strips for spot welding.
- 1x Melting ring to demonstrate Induction Heating.
- 1x Heavy aluminium ring to demonstrate Thompson's effect.

EM1660-001 dissectible transformer kit



Physical size: 270x75x220mm LxWxH (over clamp) Kit weight: 6.15 kg

Laminated iron core section: 35x35mm Length: 135mm Height: 160mm (U + I)



The instrument is supplied inside a sponge foam lined carton for protection.



IMPORTANT NOTE TO INSTRUCTOR: Some of the following experiments require either connection to the 240V.AC. mains or can create high voltages that can, if touched, hurt or perhaps injure students.

MANY EXPERIMENTS ARE VERY SAFE BUT PLEASE BE SURE TO KEEP STRICT SUPERVISION WHEN THE HIGH VOLTAGE EXPERIMENTS ARE IN PROGRESS.

KIT CONTENT DETAILS:

- 240 Volt primary coil, on bobbin, 800 turns, on/off switch, indicator lamp, 3 Core flex and plug. ***READ and FOLLOW THE INSTRUCTIONS FIXED TO THIS COIL. NEVER APPLY 240V.AC. UNLESS THE PRIMARY COIL IS FITTED TO THE COMPLETE AND CLOSED IRON CORE.***
- Secondary coil with 70 turns of heavy wire for low voltage and high currents. This coil provides 20 Volts and is tapped at 2, 4, 12 and 16 volts with each tapping terminated to insulated 4mm socket head terminals.
- Laminated iron 'U' core. 35x35mm section
- Laminated iron 'I' core.
- Clamp for holding 'I' core to 'U' core with carry handle.
- Spot welder. Heavy current coil, with handles and welding points fitted. Including small samples of thin stainless steel for spot welding together.
- Induction heater for melting solder. (Short circuited secondary coil with handle)
- Thompson's Ring (Aluminium ring that hovers in the magnetic field).
- Booklet of experiments and instructions.

Designed and manufactured in Australia