



OMEGA TYPE ES-450 Experimental Set-Up has been designed specifically to determine the charge of an electron by Millikan's oil drop experiment.

The setup is absolutely self-contained and requires no other apparatus.

Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

01. To determine the charge of an electron by Millikan's oil drop experiment.

FEATURES

The Complete Experimental Set-up consists of following items.

01. **Source of light:** Lamp House 6V at 3.5 Amp. Total 21W
02. **Microscope:** Microscope is mounted on the opposite side of the lamp house. It is mounted with rough and fine slow motions.
 - 02.1 Eye-piece 10x, Ramsden
 - 02.2 Total magnification 30x
03. **Condenser** plates are made of brass mounted at the top of the central pillar insulated from the rest of the apparatus.
 - 03.1 Plate Distance 6.5mm
04. Atomizer containing (Coconut oil 100 gm)
05. **Power Supply**
 - 05.1 Plate Voltage: 0 to 300V D.C.
 - 05.2 Filament Voltage: 6.3V AC at 3.5 Amp.
 - 05.3 Digital Voltmeter 0-300V
 - 05.4 Change over switch between +ve,-ve & 0 field Forward, off and reverse switch
 - 05.5 Input Voltage: 220V A.C.
06. Weight : 8 Kg. (Approx.)
07. Adequate no. of connecting wires.
08. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures and Report Suggestions.

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS

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