



55702 Experimental Set Up has been designed specifically to determine the power factor of an A.C. circuit using Joule's Calorimeter. The set up 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 power factor of A. C. circuit by Joule's Calorimeter.

FEATURES

The Set up consists of the following :

- 01 One board consists of the following built-in parts:
 - 1.1 0-3V D.C. at 2A continuously variable power supply.
 - 1.2 0-3V A.C. at 2A continuously variable (on load) power supply.
 - 1.3 D.C. / A.C. Voltmeter, 65mm round dial to read 0-3V.
 - 1.4 D.C. / A.C. Ammeter, 65mm round dial to read 0-2A.
 - 1.5 Mains ON/OFF switch, Fuse and Jewel light.
- 02 Joule's calorimeter (Electrical) with stirrer size 100 x 75mm.
- 03 Thermometer 0° to 110°C.
- 04 Weight : 4 Kg. (Approx.)
- 05 Dimension : W 415 x H165 x D 315
- 06 Adequate no. of patch cords stackable 4mm spring loaded plug length 50cm.
- 07 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

OTHER APPARATUS REQUIRED:

- 01 Digital Stop Clock OMEGA TYPE DSC-602 with START/STOP operation by means of toggle switch & RESET by a push button switch. It has a range of 999.9 seconds with resolution of 0.1 seconds and accuracy of $\pm 0.01\%$ (Quartz controlled). Display is thorough 4 no's of 12.5mm bright Seven Segment Displays and working voltage of the unit is $230V \pm 10\%$ 50Hz
- 02 Physical Balance with weight box

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in