

**VERIFICATION OF NEWTON'S
LAW OF COOLING
OMEGA TYPE ES-295**



OMEGA TYPE ES-295 Experimental Set-Up has been designed specifically to verify Newton's law of cooling by drawing a cooling curve for the liquid.

The set-up is complete in all respects and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

To verify Newton's law of cooling by drawing a cooling curve for the liquid.

FEATURES

The complete Experimental Set-up consists of the followings :

01 NEWTON'S LAW OF COOLING APPARATUS

Joule's Calorimeter consisting of Copper Calorimeter fitted in teakwood polished case with bakelite top having holes for thermometer & stirrer, two terminals connected to a coil of wire.

02 THERMOMETER : 110°C x ½.

03 BATTERY ELIMINATOR OMEGA TYPE BE-5/3. 0-5V D.C. at 3A, continuously variable regulated and short circuit protected

04 DIGITAL STOP CLOCK : With START/STOP operation by means of toggle switch & RESET by a push button switch.

OMEGA TYPE DSC-602 It has a range of 999.9 seconds with resolution of 0.1 seconds and accuracy of ±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± 10% 50Hz.

05 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

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

OMEGA ELECTRONICS