



55796 Experimental Set-Up has been designed specifically to determine specific heat of a liquid by the method of Newton's law of cooling.

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

#### OBJECT

To determine Specific Heat of a given liquid by the method of Newton's law of cooling.

#### FEATURES

The complete Experimental Set-up consists of the followings :

##### 01 NEWTON'S LAW OF :

It consist of two units each having a double walled joint less brass vessel richly nickle plated COOLING APPARATUS highly polished with non conduction cover through which is suspended. A Copper calorimeter approximately size of 7.5 x 5 Cm. A second covering protects top of the calorimeter from dust & heat losses. The spaces between the double walled vessel are connected by T tubes which enable water at same temperature to be kept circulating through them.

##### 02 THERMOMETER : 110°C x ½. (2 nos.)

03 DIGITALSTOP CLOCK : 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.

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

#### OTHER APPARATUS REQUIRED :

01 Physical balance with weight box.

02 Liquid.

Note: Specifications are subject to change.

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