



innovative solutions

Thermal Ageing Test Oven (Loss of Mass) Test (HMI Model) as per IS: 5831, IS: 10810 (Pt.10&11), IEC 811-1-2, IEC 8011-3-2 (section 8)



An ISO 9001:2008 Company
GMP compliant

Thermoplastic and electrometric substances when exposed to heat undergo many types of physical and chemical changes. The extent and type of change that takes place depends upon the severity of exposure of the sample to heat (i.e., temp. range), duration and rate of air flow. This test makes an assessment of change in Tensile Strength and Elongation of the material on subjecting them to accelerated ageing in hot air.

Each Cell is a complete instrument in itself i.e., fitted with individual Temp. Indicating Controller, Air Flow Meter, and an Hour Meter. This enables the user to test different type of samples at desired temperature and duration, depending upon test requirement of end users & testing authorities. The instrument is controlled using PLC with a large 7" touch screen HMI

The instrument consists of the following:

- ✚ A double walled chamber with inside chamber of thick aluminum sheet.
- ✚ Size of the chamber is 100 mm dia. x 300mm ht.
- ✚ Jacket type heater for the chamber.
- ✚ Digital Temp. Indicating Controller with sensor. Temp. range 0-200 ± 2 °C.
- ✚ Digital Flow indicator for volume of air passing through the chamber. (control using needle valve)
- ✚ Air inlet nozzle for the airline or air compressor.
- ✚ Specially designed top cover to hold five test samples in each chamber.
- ✚ Hour Meter to record the total time of test.
- ✚ Display and Control Using HMI (7" touch screen, with data logging facility)



(Actual instrument may differ from the photograph due to regular improvements)

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