



SANMY

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Laboratory Ageing Test Oven SSI - AGIS

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.

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Each Cell is a complete instrument in itself i.e., fitted with individual Temp. Indicating Controller, and hour meter. The Air is monitored by two flow sensors. 0-1 LPM Omron sensor for IEC requirement of 8-20 air changes and 0-10 LPM sensor for UL requirement of 100-200 Air changes. Four buffer fly valves are provided on the front panel. By using different combination of butterfly valve being On / Off, air flow can be regulated in the cells. The instrument can be operated with three combination.

1. Four Cell with 0-1 LPM air for 8-20 Air changes and other 4 cell with 0-10 LPM air for 100-200 Air Changes
2. All Eight call with 0-1 LPM air for 8-20 Air changes
3. All Eight Cell with 0-10 LPM air for 100-200 Air Changes..

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 consists of the following:

- ✚ A double walled chamber with inside chamber of thick aluminum sheet.
- ✚ Size of the chamber 100 mm dia. x 350 mm ht. (Effective size : 100 x 300 mm)
- ✚ 60 mm thick, insulated lid for better temperature distribution within the cell.
- ✚ Jacket type heater for the chamber.
- ✚ Digital Temp. Indicating Controller with sensor. Temp. range Ambient + 5-200 ± 1 °C.
- ✚ Flow Sensor and needle valve for monitoring and controlling the volume of air passing through the cells.
- ✚ Two flow regulator for air inlet form the airline or air compressor.
- ✚ Hour Meter to record the total time of test.
- ✚ Individual On/Off Switch for each cell.

To operate the unit Compressed Air line is to be provided by the customer. If the customer is using his own air compressor, it may require one pressure regulator, pressure gauge & connecting pipes which are available from us.