



Accelerated Ageing Oven



Model No. PAAD - 35

Accelerated Ageing Oven ageing and heat resistance tests are designed to estimate the relative resistance of rubber to deterioration with the passage of time. For this purpose, the rubber is subjected to controlled deteriorating influences for definite periods, after which appropriate properties are measured and compared with the corresponding properties of the unaged rubber. In accelerated ageing, the rubber is subjected to a test environment intended to produce the effect of natural ageing in a shorter time.

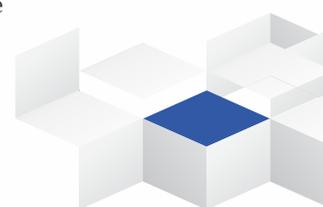
- Temperature control through PT-100 sensor
- Highly accurate test results under uniform temperatures in the chamber
- High Grade imported Glass Wool insulation
- Maximum Thermal Efficiency by insulation means.
- Advanced Digital Microprocessor & PID based temperature controller
- Digital Preset Timer (In hrs:min:sec)
- Provision of Set Time and Process time on timer display
- Air-oven method using a cell-type oven or cabinet oven with low air speed and a ventilation of 3 to 10 changes per hour
- Bright LED display
- Feather touch controls
- Inbuilt Auto tuning function
- Provision to set PV and SV value
- Vent for forced air changes and calibration facility
- Inbuilt Calibration feature with reference to master PID controller

Cell - Type oven

The oven shall consist of one or more vertical cylindrical cells having a minimum height of 300 mm. The cells shall be surrounded by a thermostatically controlled good-heat-transfer medium (aluminium block, liquid bath or saturated vapour). Air passing through one cell shall not enter other cells.

Cabinet oven

This shall comprise a single chamber without separating walls. Provision shall be made for a slow flow of air through the oven. The air speed shall depend on the air change rate only, and no fans are allowed inside the heating chamber.





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In this method, the test pieces are subjected to a higher temperature than the rubber would experience in service in order to produce the effects of natural ageing in a shorter time.

Key Specifications:

Size	455x455x455 mm (18" x18" x 18")
Display	LED (Digital)
Accuracy	± 2°C
Least Count/Resolution	1°C or 0.1°C (As per model)
Power	15A,220V, Single phase, 50 Hz
Temperature Range	Upto 250°C (Upper Ranges Available As per Requirement)
Timer Range	Upto 999 Hrs. Factory setting (Selectable min & sec also available)
Change over timer range	On time 999 min. Off time 999 min

*Air Compressor not a part of supply

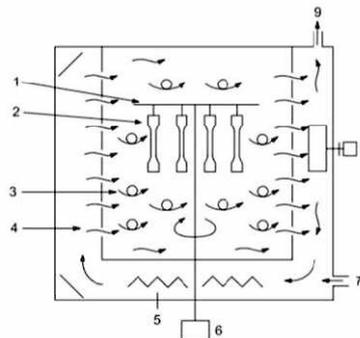
Highlights:

No. of Sample racks or Cell	Rack 2No or Cell 4 No.
Handle	Yes
Material	Mild Steel (Outer Body) Stainless Steel (Inner Body)
Finish	Powder coated Havel Grey & Blue combination finish and bright chrome / zinc plating for corrosion resistant finish
Air Change over	3 - 10 per/hour

*Cell type & Cabinet type Accelerated Ageing Oven any one select at the time of order

Key :

1. Test piece carrier
2. Test pieces
3. Turbulent air flow
4. Laminar air flow (inlet, outlet and near to wall)
5. Heating element
6. Motor
7. Air inlet
8. Air blower
9. Air outlet



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