Limiting Oxygen Index Chamber

LOI

**Features**

- Easy to Operate – User needs only to ignite specimen and adjust gas flow
- Flexible Sample Testing – Specimens may be in rod, film or composite form
- Uniform Combustion Atmosphere – Nitrogen and oxygen are fully mixed in a special dispersion chamber and glass bead bed before entering column
- Precision Gas Flow Metering – Micro-adjustment flowmeters allow precise control of gases
- Conforms to ASTM D2863 and ISO 4589-1, ISO 4589-2
- Twin Gas Flowmeters with Control Needle Valves, Certified Calibration to ±0.5%
- Twin Gas Pressure Gages (0 to 100psi)
- Chimney Gas Dispersion Chamber with Glass Bead Bed
- Rigid Specimen Holder

**Standard Features**

- Twin Gas Flowmeters with Control Needle Valves, Certified Calibration to ±0.5%
- Twin Gas Pressure Gages (0 to 100psi)
- Chimney Gas Dispersion Chamber with Glass Bead Bed
- Rigid Specimen Holder

**Optional Features**

- Smoke Density Measurement System, includes Smoke Density Detector and Chart Recorder – Records variations in smoke generation throughout test (120Vac 60Hz or 230Vac 50Hz)
- Non-rigid Specimen Holder (for film, sheet, etc.)
Description

The advanced LOI Limiting Oxygen Index Chamber accurately determines the relative flammability of plastics and other materials. It conforms to ASTM D2863 and ISO 4589-1, ISO 4589-2 standards and provides a means for safely determining the relative flammability of materials by measuring the minimum oxygen concentration that will support combustion. The test specimens are burned in a precisely controlled atmosphere of nitrogen and oxygen. The operator adjusts the supply gases and uses the flowmeter readings to calculate the oxygen index.

Specifications

| Dimensions       | 20"H x 12"W x 12.4"D  
|                 | ( 50.8cm x 30.5cm x 31.5cm) |
| Weight          | 32.5 lbs. (14.7kg) |
| Gas Requirement | Commercial grade or better Nitrogen (N₂) and Oxygen (O₂) |