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LIMITING OXYGEN INDEX CHAMBER QUALILOI™



STANDARDS

ASTM D2863

ISO 4589-2

NES 714

APPLICATIONS

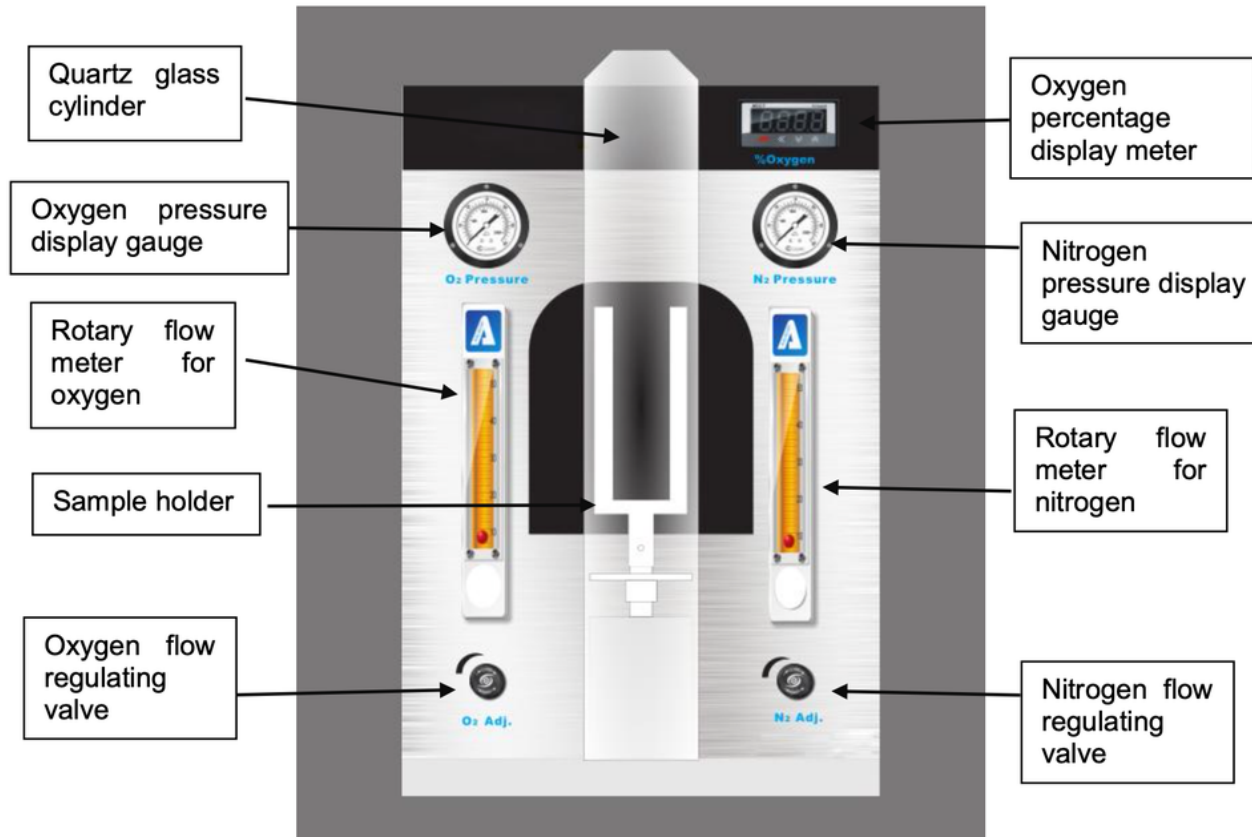
QualiLOI™ Limiting Oxygen Index Chamber

QualiLOI™ Limiting Oxygen Index Chamber, is an economical and versatile instrument designed for evaluating the combustion performance of various materials including plastics, rubber, fiber, foamed plastics, film, textile, wood, and more under specified test conditions. This Basic Limiting Oxygen Index Chamber precisely determines the volume percentage concentration of the lowest oxygen level at which the polymer sustains combustion.

Accurate, reproducible, and convenient, this instrument offers fast testing capabilities for measuring polymer combustion performance. It serves as a reliable tool for identifying flame retardancy in polymers and can also be utilized for research purposes.

Under specified test conditions, such as indoor temperature, within an oxygen-nitrogen mixed gas flow, the measurement method to maintain the minimum oxygen concentration required for sample combustion defines the oxygen index.

The oxygen index method can be categorized into room temperature and high temperature methods based on the ambient temperature during combustion. Generally, a higher oxygen index indicates better flame retardant performance of the material, while a lower oxygen index suggests easier material ignition.



FEATURES

QualiLOI™ Limiting Oxygen Index Chamber Features:

- Utilizes modern oxygen sensor technology for automatic oxygen percentage concentration acquisition.
- Digital display of oxygen percentage concentration with reading accuracy of 0.1%.
- Precision metering gas flow valve ensures accurate adjustment of oxygen and nitrogen flow.
- Oxygen percentage step length adjustment with accuracy up to 0-0.2L/Min.

- Equipped with nitrogen and air pressure reducing valves, allowing output pressure adjustment to 0.1mpa.
- External electrochemical sensor for user-friendly replacement.
- High temperature resistant quartz glass cylinder capable of withstanding higher test temperatures.
- Gas igniter device with adjustable flame length and gas cutoff function for convenience.
- Compliant with ASTM D2863, ISO4589-2, and NES 714 standards.

TECHNICAL SPECIFICATIONS

QualiLOI™ Limiting Oxygen Index Chamber Technical Specifications:

Dimension	370 mm (W) x 300 mm (D) x 480 mm (H)
Weight	8KG
Power Supply	220V, 10A (110V available upon request)
Ambient Temperature	10°C to 35°C
Installation Space	Place in a fume hood
Gas Required	Oxygen and Nitrogen



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