

Needle Flame Resistance Test Chamber

IEC884-1/GB2099.1

Needle Flame Test Chamber assesses the fire resistance of materials. It tests the effect of small flames on items with potential interior faults, such as leakage current in cables.



Overview

Needle Flame Resistance Test Chamber

This needle flame test chamber is engineered to simulate the effects of small flames on electrical equipment and components, identifying potential fire hazards caused by interior faults like leakage currents. Designed for professional compliance testing, it features robust stainless steel and brass construction with automated ignition and precise digital timing. The chamber is fully compliant with major international standards, making it an essential tool for quality assurance in the electrical and appliance manufacturing sectors.

Standards & Compliance

Testing Standards

IEC884-1, GB2099.1, VDE, IEC335, GB4706.1, GB5169.5, UL1694, IEC60695-2-2, IEC61347-1

Technical Specifications

Burner Dimensions

0.5 mm

Inside Diameter

0.9 mm

Max Outside Diameter

35 mm

Min Length

Flame Control

- Flame height: 12 ± 1 mm (adjustable)
- Flame period: 0 to 99m 99s
- Temperature rise period: $23.5s \pm 1.0s$ (from $100^{\circ}C$ to $700^{\circ}C$)

Physical Dimensions & Weight

1200 mm

Width

1100 mm

Depth

1400 mm

Height

105 kg

Weight

Interior Capacity

0.5 m3

Features

Build Quality

Stainless Steel • Brass

Key Features

- Automatic burner ignition
- Digital temperature and test time display
- Large observation window
- Adjustable flame height

Requirements

Gas Type

Butane (at least 95.0% pure)