

# 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:  $12 \pm 1$  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)