



深圳市宏之都科技有限公司  
HONGDU TESTING EQUIPMENT CO., LTD.

## HD-5400 Needle Flame Testing Machine



This instrument is mainly used to test electrical and electronic equipment and its components and components. It is also suitable for the test of solid electrical insulating materials or other combustible materials. It uses simulation technology to assess the fire risk of small flames caused by fault conditions inside the relevant equipment. It is suitable for electric wires, cable, plug, socket and other industries as well as quality control laboratories or research sites.

### Technical Parameters:

Serial number	Project	Specifications
1	Input power	220VAC $\pm$ 10%, 50/60Hz
2	Fuse	5A/250VAC
3	Output Power	500W
4	Needle burner	Stainless steel, inner hole $\Phi$ 0.5mm $\pm$ 0.1mm, Outer diameter $\leq$ $\Phi$ 0.9mm, length $\geq$ 35mm

5	Burner angle	Vertical (when checking and measuring flame height) And tilt 45° (at test)
6	Ignition bedding	10mm thick white pine board covering 12g/m <sup>2</sup> ~30 g/m <sup>2</sup> standard crepe paper, 200mm±5mm below the flame application point
7	Gas	≥95% butane gas (reference gas), can also use propane gas
8	Flame temperature gradient	100 °C ± 2 ° C ~ 700 ° C ± 3 ° C (room temperature ~ 999 °C), 23.5s ± 1.0s (1s ~ 99.99s)
9	Flame height	12mm ± 1mm (adjustable)
10	Burning time	5s, 10s, 20s, 30s, 60s, 90s (0/-1)s, (1~99.99s, m, h digital display can be preset)
11	Burning time	1s ~ 99.99s (digital display, you can manually pause the digital display)
12	Test space	≥0.5m <sup>3</sup> , Background black
13	Flame temperature sensing device	Φ4mm/0.58±0.01g, with K type φ0.5mm insulated armored galvanic couple, armored sleeve heat resistant 1100°C
14	Dimensions	875 × 550 × 1800 (width × depth × height)
15	weight	About 100 Kg