

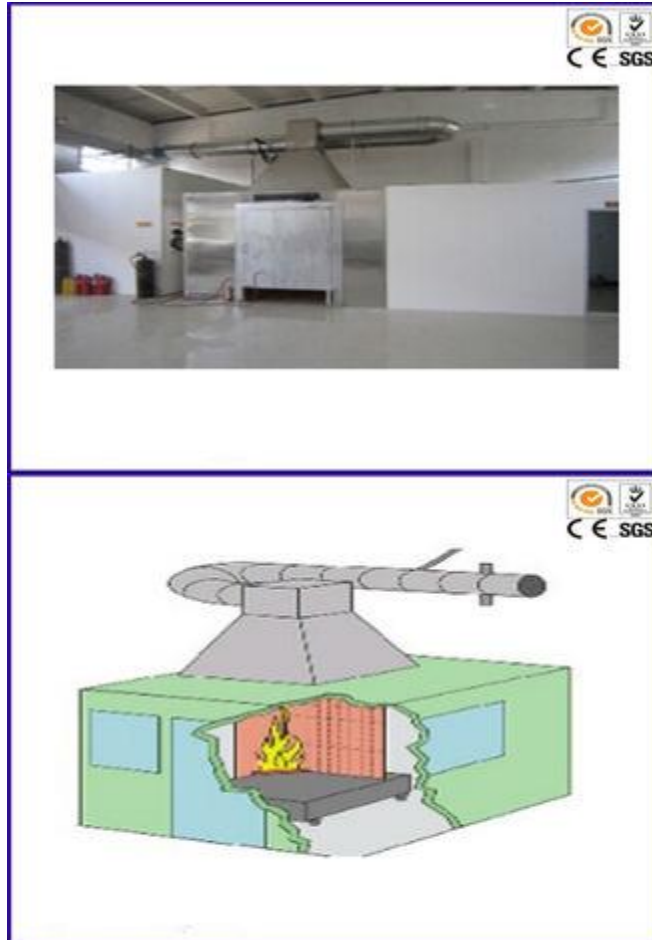


**YUYANG INDUSTRIAL CO., LIMITED**

China Manufacturer of Fire Testing Equipment

### Professional Single Burning Item Test Apparatus / SBI Fire Test Equipment





- **Product Details:**

- Place of Origin: **China**
- Brand Name: **YUYANG**
- Certification: **GB/T 20284 EN 13823**
- Model Number: **YY503**

- **Payment & Shipping Terms:**

- Minimum Order Quantity: **1 set**
- Price: **Negotiation**
- Packaging Details: **Plywood Box**
- Delivery Time: **35 work days**
- Payment Terms: **T/T L/C Western Union**
- Supply Ability: **3 sets per quarter**

- Share to :

## **Building Materials and Products Single Burning Item Test Apparatus/ SBI Fire Tester**

### **Application:**

Method of test for determining the reaction to fire performance of building materials and products excluding flooring, and excluding products which are indicated in the EC Decision 2000/147/EC.

### **Standard:**

EN 13823 Reaction to fire tests for building products — Building products excluding floorings exposed to the thermal attack by a single burning item  
GB/T 20284 Single burning item test for building materials and products

### **Operating Conditions:**

1. Power supply: AC 220V 50HZ;
2. Power: 8.5KW;
3. Ambient temperature: 5~35 °C;
4. Relative humidity: 20%~80%;
5. Atmospheric pressure: 0~250KPa.

### **Specifications:**

The test apparatus contains test room, control room, trolley, exhaust duct, data collection analysis device, gas supply control device.

1. Test room: L3000\*W3000\*H2400(MM), at the top of room connecting hood with sampling pipe and exhaust ducting, there is space for natural gas in-out blow the

trolley. During testing, the combustion heat release of sample and combustion production can be discharged from exhaust duct. With brick building.

2. Ignition source, placed on trolley vertical rectangular box in the corner of the 31 kw propane sandbox burners (two equal sides of 250mm, height 80mm);

3. Exhaust pipe is provided with general measurement section for placing sensors and sampling tubes;

4. Exhaust speed:  $0.50 \text{ m}^3/\text{S} \sim 0.65 \text{ m}^3/\text{S}$ ;

5. Test room ambient temperature measurement: K-type sheathed thermocouples with diameter 2mm, ambient pressure test accuracy:  $\pm 200 \text{ Pa}$ ;

6. Flue temperature measurement: K-type sheathed thermocouples with diameter 0.5mm;

7. Temperature measurement accuracy:  $0.5^\circ \text{C}$ ;

8. Flue high-precision pressure sensor accuracy:  $\pm 2 \text{ Pa}$ ;

9. Time recording system accuracy: 0.1S;

10. Test time: 1 to 30 minutes can be set;

11. Smoke density measurement system to measure the density of the smoke during testing;

12. Gas analyzer, and the key components are imported.

13. Embedded computers and 8.4-inch LCD display with TCP / IP and RS-232 communication interfaces can be choice;

14. Oxygen measurement:

1 ) Measuring range: 0-25%

2) Signal output: 4-20mA;

3 ) Response time  $T_{90}$ :  $\leq 2 \text{ S}$ ;

4 ) Ambient temperature:  $0-45^\circ \text{C}$ ;

5 ) Relative humidity:  $< 90\%$  (non-condensing);

6 ) Linearity:  $< \pm 0.1\% \text{ O}_2$ ;

7 ) Zero drift:  $0.05\% \text{ O}_2$  per week;

8 ) Repeatability:  $< \pm 0.02\% \text{ O}_2$ ;

15. Carbon dioxide ( $\text{CO}_2$ ) measurement:

1) Measuring range: 0-10%;

2) Repeatability:  $< \pm 1\%$  internal structure of the control cabinet;

3) Zero drift:  $\leq 2\%$  / week;

4) Span drift:  $\leq 2\%$  / week;

5) Linearity deviation:  $< \pm 1\%$ ;

6) Response time:  $T_{90} \leq 2$  seconds;

16. Record data acquisition system can collect oxygen concentration, carbon monoxide concentration, temperature, smoke density, heat release rate, mass loss rate, etc., can be stored.

