



YUYANG INDUSTRIAL CO., LIMITED

China Manufacturer of Fire Testing Equipment

ISO 9239-1 ASTM E648 Fire Tester Critical Radiant Flux with a Radiant Heat Energy Source





- **Product Details:**
- Place of Origin: **China**
- Brand Name: **YUYANG**
- Certification: **EN ISO 9239-1 ASTM E648 ASTM E970 NFPA 253**

- Model Number: YY516
- **Payment & Shipping Terms:**
- Minimum Order Quantity: 1 set
- Price: **Negotiation**
- Packaging Details: **Plywood Box**
- Delivery Time: **25 work days**
- Payment Terms: **T/T L/C Western Union**
- Supply Ability: **1 sets per month**
- Share to :

ISO 9239-1 ASTM E648 Fire Tester Critical Radiant Flux with a Radiant Heat Energy Source

Description:

FLOORING RADIANT PANEL TEST (CRITICAL RADIANT FLUX), ASTM E 648, NFPA 253, FED. STD. NO. 372, NBSIR 75-950: The Floor Radiant Panel apparatus involves a horizontally mounted floor covering test sample which receives radiant energy from a gas-air fueled radiant panel mounted above one end of the sample and inclined at an angle of 30°. The radiant panel generates a radiant flux profile along the length of the sample ranging from a maximum of 1.1 W/cm² immediately under the panel to approximately 0.1 W/cm² at the end of the test sample. A gas fired pilot burner is used to initiate the ignition in the sample. The distance the flooring system burns to extinguishment is converted to watts per square centimeter (W/cm²) and is reported as critical radiant flux (CRF). This is the minimum radiant energy a fire needs to sustain flame propagation in the flooring system. In this test, a higher number indicates a more flame-resistant system; i.e., 0.45 W/cm² is better than 0.22 W/cm².

Standard:

GB / T11785 "flooring combustion performance measurement - a radiant heat source"
ISO9239-1:2002 "flooring combustion performance Part 1-the combustion performance"

is determined with radiant heat resource”

ASTM E648:Standard Test Method for Critical Radiant Flux of Floor-covering Systems Using a Radiant Heat

ASTM E970:Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source

NFPA 253:Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source

Parameter:

1. Power supply:AC 220V,50HZ;
2. Total power:2KW;
3. Timer: timing accuracy < 1s/h;
4. Heat flux measurement range: (0-15) Kw / m²;
5. Heat flux meter accuracy: ± 0.2 Kw / m²;
6. Heat flux meter accuracy: $<\pm 3\%$;
7. Thermal radiation temperature measurement range: 400-600 °C, accuracy ± 0.5 °C;
8. Blackbody temperature error: ± 5 °C;
9. Exhaust speed: (2.5 ± 0.2) m / s;
10. Exhaust capacity: (39-85) m³ / min;
11. Porous refractory radiant panel size: 300mm × 450mm, about 900 °C high temperature capability;
12. Thermocouple: K diameter stainless steel sheathed thermocouple of 3.2mm;
13. Heat flux distribution requirements: at 200mm : (9.1 ± 0.4) KW / m²;
at 400mm : (5.0 ± 0.4) KW / m²;
at 600mm : (2.4 ± 0.2) KW / m²;
14. Combustion gases: propane (Customer);
15. Combustion gas flow rate: (0.026 ± 0.002) L / S;
16. Combustion burner: outer diameter ϕ 10mm inner diameter ϕ 6mm, burner tube hit 35 ϕ 0.7mm hole;
17. Flame height: 60 ~ 120mm adjustable;
18. Ignition system: high-voltage electronic ignition;
19. Powerful exhaust system: This machine is equipped with a powerful exhaust fan, when the test is completed, the system will start the exhaust fan exhaust outside.

Specification:

1. The apparatus is made of combustion chamber and control box;
2. Combustion chamber size: L1420 * W1200 * H2300 (mm);
3. Outline dimension: L2530*W1270*H2700mm(including electric cabinet);
4. Control box / combustion chamber material: high quality (t = 1.2mm) 304 is stainless steel, CNC machining, circular nice shape;
5. Blowtorch: made by our company, 304 stainless steel material, in full compliance with GB / T11785 standards;
6. Other mechanical parts are made of 304 stainless steel or A3 material thicker plating, anti-corrosion and rust.



Anemometer



Optical Filter



