Advanced Instruments Co.,Ltd.

Flooring Radiant Panel Tester

- ISO 9239-1
- ISO 9239-2
- ASTM E 648
- ASTM E 970
- NFPA 253

Critical Radiant Flux is the main parameters of the fire risk for flooring materials.It reflects the burning and spreading ability of flooring material specimen under external heat radiation conditions.It is an important index of combustion classification for building products.

According to ISO9239-1,2 and GB/T 11785-2005 requirements,it measures the critical radiant of combustion floor coverings, through the radiation environment of test chamber. It is can also be used to measure the critical radiation of the cellulose insulation floor material.

Model：FTF

I.Main feature

1, All structural components are made of stainless steel, appearance,and corrosion res

2, The radiation source is a porous ceramic heat radiating plate of 300mmX450mm, ar

3, The calorimeter is imported from United States , range 50kW/m2;

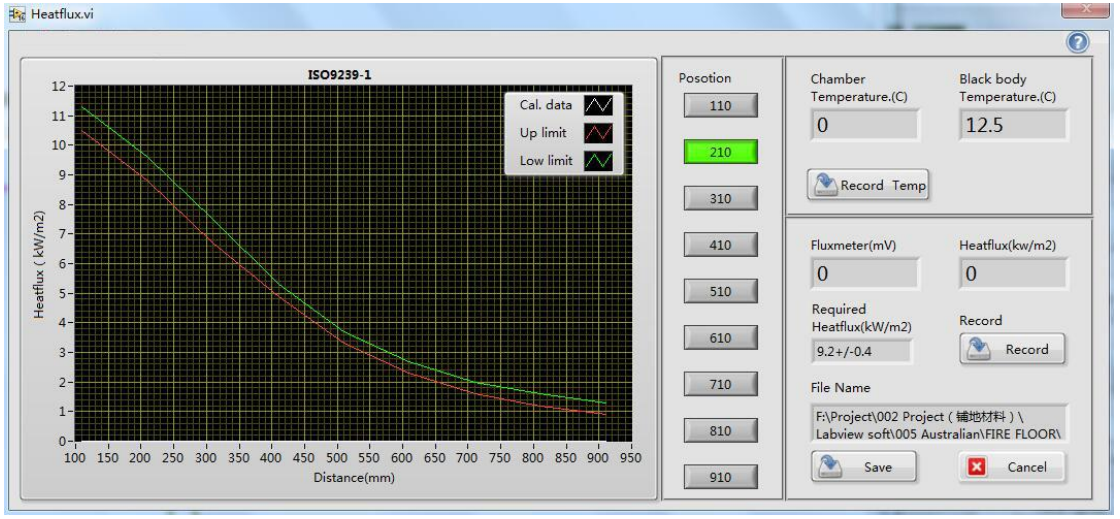
4, The igniter diameter is 0.7mm, 19/EA, is located at the bottom of the center line of each 60°；

5, The standard plate is made of calcium silicate without coating layer，which is size of 1050X250mm and thickness is 20 ± 1mm ,density is 850 ± 100kg/m^3；

6, Small stainless steel auxiliary ignition burner ignited sample.

7, Inlet flow control valve, precise control of propane flow;

8, Equipped with air blower providing air, mixed gas through the venturi mixing gas,



II.Optical system

1, The optical system comprising a light source color temperature is 2900 ± 100 K incandescent, light receiving silicon photodiode with an optical path test shutter, 0% and 100%, to facilitate the use of calibration;

2, Imported light battery module measuring light attenuation. The system automatically calculates and generates a light transmittance curve translucent; printable Scribble

III.Control System

1, Heat radiation pyrometer accuracy of ± 0.5 ℃, away from the radiation board about 1.4m;

2, Radiation pyrometer sensitivity constant in the wavelength range 1um ~ 9um;

3, High-performance K-type thermocouples diameter 3.2mm, having insulation and ungrounded hot junction; in the lower box roof 25mm, the inner wall of the rear housing flue 100mm;

4, Should be used to detect a diameter in the range of 250mm, blackbody radiation temperature within a temperature range of 480 ℃ ~ 530 ℃ count regulate the heat radiation panel surface heat flux

5, Within the error range, measured from the heat radiating plate to the heat flux within 110mm ~ 910mm wide, 110mm intervals.

IV.Control system

1, The standard control cabinet, embedded integrated 10.2 "touch screen.

2, There is an audible alarm and alarm display functions accidents.

3, The control box USB / RS232 serial port, external desktop / notebook computer operation control, free to print the test report.

V.Specifications

Size	1,400(W)×500(D)×2,200(H)mm
Console Size	600(W)×750(D)×1600(H)mm
Power	AC 220V, 50/60Hz, 20A
Max.Power	5KW
Weight	200kg
Exhaust	30~85 ㎥/min