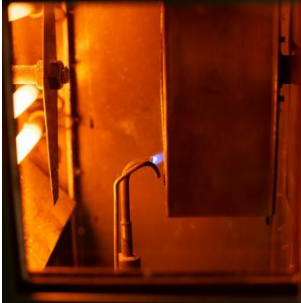


OSU Heat Release Rate Tester



Application:

This Tester is used to expose aircraft interior cabin materials to an incident radiant heat flux of 35 kW/m². This will determine if the material complies with FAR 25.853[a-1] requirements.

The OSU heat release rate tester approved by FAA of the Federal Aviation Administration of the United States was originally designed by Smith of Ohio State University in 1972, and later became a FAA designated combustion test instrument for testing the heat release rate of Aeronautical materials. The test standards are FAR Part 25 Appendix F Part IV, Airbus AITM 2.00. 06, Boeing BSS 7322.

Product Parameters:

Dimension	760mm (W) x 1850mm x (H) x 850mm (D)
Weight	218KG
Electricity requirements	220 V, 35 Amps
Ambient temperature	10 °C to 35 °C
Auxiliary Gas	Constant Temperature and Constant Current Gas

Combustion gas	methane
Standard	AITM 2.0006,BSS 7322,FAR PART 25 APPENDIX F Part IV
Applications	Aviation Materials

Performance characteristics:

1. Stainless steel combustion test chamber with high temperature glass observation window;
2. The heat radiation source is 4 Glowbars heating rods, which can provide 35KW/M2 heat radiation flux.
3. Two independent PID temperature controllers are used for heating temperature control.
4. Equipped with fully automatic pneumatic sample propulsion device and shielding door device;
5. Equipped with upper burner and movable lower burner;
6. Rotor flowmeter can be used to adjust the gas flow rate of upper and lower burners.
7. Equipped with movable T-type calibration burner device and flow controller;
8. Mass flow controller is applied to thermopile temperature calibration automatically.
9. Water-cooled heat flow meter is equipped with cooling mode to measure the heat radiation flux of the fire surface.
10. The air temperature control device can provide constant temperature and flow air for the test chamber.
11. The orifice flowmeter is used to measure the flow pressure entering the test bin.
12. Equipped with data acquisition system and heat release standard test software.

Configurations of Goods

A. Main

1. OSU Main unit (1set)
2. Air Distribution System(1set)

B. Accessories

1. Control unit(1set)
2. Computer system (1set)

Installation requirements

3. Installation conditions
 - 2.1 Indoor installation, size 760mm*1850mm*850mm
 - 2.2 Power supply: 220V60A;
 - 2.3 Gas: methane, purity 99% or above;
 - 2.4 Auxiliary gas: constant temperature and constant flow gas;