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FANYUAN INSTRUMENT (HF) CO., LTD.  
DOWELL SCIENCE AND TECHNOLOGY (HK) CO., LTD.  
ADD: Tianyuan Road 9#, High-tech Zone, Hefei City, China Postal Code: 230088  
TEL: +86-551-65232508  
FAX: +86-551-65232507  
Email: sales@hkdownell.com  
Website: http://www.fyichina.com.cn

## YG611F Flat Type Air-Cooled Xenon Arc Tester





**MODEL NO.**

**YG611F**

**APPLICATION**

Flat Type Air-Cooled Xenon Arc Meter is designed to simulate and strengthen sunlight spectrum that reaches the ground by xenon arc lamp as light source, and supplemented by temperature and humidity control, and water spray conditions. Flat type xenon exposure systems to test long-term effects that light, heat and moisture will have on your products in their end-use environment. This kind of xenon tester is suitable for various kinds of materials, such as textile, leather, plastic, rubber, painting, dyestuff etc.

**STANDARDS**

<b>STANDARDS</b>	ISO 4892.2, ISO 11341, etc
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Note: this tester can conform to but not limit to the standards above, for more standards conformance, please contact us.

**KEY SPECIFICATION**

- Tray size (area) 400×700mm
- Distance between tray and lamp 350~375mm
- Xenon lamp 2500W with life 1500h, 3 lamps
- Spectrum wavelength 290nm~800nm
- Lamp irradiance 550W/m<sup>2</sup>
- Photoperiod 1~999hour (adjustable)
- Blackpanel temperature (BPT) 50°C~90°C±3°C
- Temperature fluctuation ≤±0.5°C
- Temperature unevenness ≤±2°C
- Heating power 1kW
- Rainfall interval 0~240min (adjustable)
- Rainfall water pressure 1~1.5bar
- Water spray interval 18min/102min (spray /not spray)
- Spray nozzle diameter Φ0.8mm
- Work chamber size 460×750×460mm (D×W×H)
- Dimension 900×950×1800mm (D×W×H)
- Power supply AC220 V±10% 50Hz
- Weight 300kg



## FEATURES

- **Tester body materials**
  - Out shell uses high quality A3# steel board and carries on spray treatment, bright, beautiful and easy to clean;
  - Work chamber material is high quality SUS 304# stainless steel board;
  - Adopts double silica gel to seal the chamber door , good sealing and anti-aging performance.
- **Configuration**
  - Control system on the top of machine, including control meter, button, and indicator.
  - Upper part is light source area, 3 xenon lamps and filter located in it to provide stable and suitable simulative sunlight.
  - Middle part is working area; big sample tray can meet the demands of many kinds of sample size. Tray designed to drawer type make put and take out sample become easier and fast. Tray declines 10° allow flat and three-dimensional sample to be tested.
  - Lower part is fan and water area.
- **Control system**
  - Adopts large programmable colorful touch screen, chamber temperature and humidity can be control and adjusted.
  - Humidity and temperature sensor is high precision platinum resistor, PT100.
  - High precision: 0.1℃, 0.1RH%, 0.1min.
  - Output powers of temperature and humidity are calculated by microcomputer to get high control accuracy and save energy;
- **Arc lamp system**
  - Use high quality metallic blackboard thermometer;
  - Arc lamp: high quality and certified lamp, with lamp life 1500 hours;
- **Spray system**
  - Cupreous sprayer, incorrodible and rust-proof, it can be removed easily and spray capacity can be adjusted.
  - Deionized water with solid contents less than 20ppm;
  - Water sprayed is recyclable;
  - Spray water pressure is 1~1.5bar;
  - Equipped 3 spray heads on the top of working chamber.
- **Protection system**
  - Over temperature protection;
  - Over temperature and over current protection for water pump;
  - Power leakage protection;
  - Auto-stop after fault alarm.



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➤ **Installation environment**

- Environmental temperature: +5°C~+28°C (average temperature  $\leq 28^{\circ}\text{C}$  in 24hours);
- Environmental relative humidity:  $\leq 85\%$
- Power supply requirements: AC220 V 50Hz or 380V 50Hz

**STANDARD CONFIGURATION**

No.	Item	Quantity
01	Main machine	1set
02	Xenon arc lamp	3pcs
03	Glass filter	1group
04	Metallic blackboard thermometer	1pcs

**OPTIONAL ACCESSORIES**

No.	Item
1	AATCC Gray scale
2	ISO Gray scale
3	AATCC blue wool standard
4	ISO blue wool standard