0086 16601757347
inquiry@yukelab.com
www.yukelab.com
0086 021 59570209

## Brand positioning:

Analytical instrument manufacturer, laboratory solution provider!

## Company introduction:

Shanghai Yuke Industry Co., Ltd. was established in 1999. It is a leading manufacturer of analytical instruments and laboratory equipment in China, and is known as a high-quality instrument manufacturer and perfect service provider. Committed to the research and innovation of scientific instruments and analytical methods in the food and pharmaceutical industries, in order to promote green food and health drugs, develop and produce analytical measuring instruments, and provide technical workers with application methods and comprehensive solutions.

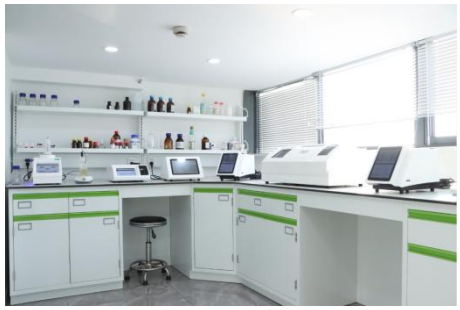
Yuke professional R&D laboratory instruments include: **Thermal Analyzer (DSC/TGA/STA), Microwave Digester, Dissolution system, Melting point meter, Polarimeter, Refractometer, Density meter, Turbidity meter, Dropping point & Softening point tester, Micro heating table, Potentiometric Titration , Moisture meter, Osmometer , Viscosity meter, Hardness tester, Flash point tester ..** They are widely used in pharmaceutical and food quality control, education and research, environmental science, chemical engineering and other fields.

Yuke has established strict working standards and technical standards in R&D, parts procurement, standardized manufacturing, and production inspection. Yuke has obtained CE certification, TART certification, ISO quality management system certification, more than 10 software copyrights and multiple patents to ensure that each instrument has stable performance and excellent quality. Yuke headquarters was established in Shanghai, China, with 15 sales branches in China, sales agents in more than 10 overseas countries, and 2 production plants. At the same time, we have a top R&D team returned from Europe and America, cooperate with our superb manufacturing team, professional sales team and dedicated service team, working together to provide customers with high-tech, high-quality products and efficient, convenient, Comprehensive pre-sales and after-sales professional services.

At present, Yuke's products have been exported to more than 50 countries including the United States, Germany, France, Malaysia, Vietnam, India, Italy, etc. We are committed to participating in Arablab, PICCTON, Analytica Russia, Lab Africa, Analytica Germany, Analytica Latin America and other exhibitions. Open up different markets, and enjoy a good reputation with reliable quality, reasonable prices and good service to win a large market share.

Yuke is committed to providing customers with a better user experience and hopes to become a world-class scientific instrument manufacturer and laboratory solution provider!





0086 16601757347
inquiry@yukelab.com
www.yukelab.com
0086 021 59570209

## 1. Closed Flash Point Test Device = YK-261-1


**Brief introduction**

YK-261-1 Closed Flash Point Test Device is designed and manufactured in accordance with the requirements stipulated in the national standard GB/T 261-2008 of the People's Republic of China "Pinsky-Martin Closed Cup Method for the Determination of Flash Point", and is suitable for the The method is to determine the flash point of petroleum products with a flash point higher than 40°C by the closed cup method.

YK-261A Automatic Closed Mouth Flash Dot Testor is designed and manufactured in accordance with the requirements stipulated in the industry standard SH/T 0315 "Technical Conditions for Closed Flash Point Meter" of the People's Republic of China.
YK-261A Automatic Closed Mouth Flash Dot Testor is suitable for determining the closed cup flash point of petroleum products according to the method stipulated in the standard GB/T 261-2008 of the People's Republic of China "Determination of Flash Point - Pensky-Martin Closed Cup Method".

**The main features**

**YK-261-1 Closed Flash Point Test Device Main technical features**

1. The biggest feature of this YK-261-1 Closed Flash Point Test Device is: accurate heating rate, in line with GB/T 261-2008 standard requirements
2. Using single-chip microcomputer control technology and LCD screen display, Chinese man-machine dialogue interface, continuous stepless adjustable heating power, convenient parameter setting.
3. The liquid crystal display has a prompt menu and a prompt input operation interface to display the setting parameters and real-time display of the sample temperature and various test parameters. When the flash point appears, press the record key lightly, and the display will display and retain the flash point value.
4. The design is novel, the structure is compact, and the stainless steel table is beautiful. The user only needs to add gas or other civil combustible gas to carry out the test. It is easy to use and the test result is accurate. The biggest feature of this instrument is: the heating rate is accurate, only need to manually observe whether the flash point appears, the rest is done automatically by the instrument, the instrument is cost-effective.

**YK-261A Automatic Closed Mouth Flash Dot Testor Main technical features**

1. YK-261A Automatic Closed Mouth Flash Dot Testor adopts large color LCD display, full Chinese man-machine dialogue interface, no logo keyboard, and has prompt menu-guided input for parameters such as predictable temperature, sample label, atmospheric pressure, and test date.
2. The simulation track shows the function curve of temperature rise and test time. It has the function of Chinese misuse software prompting and modifying, and the function of prompting parameters such as test

0086 16601757347
inquiry@yukelab.com
www.yukelab.com
0086 021 59570209

date and test time.
3. Can store 100 sets of historical data.
4. Automatically correct the influence of atmospheric pressure on the test and calculate the correction value.
5. Differential detection, automatic correction of system deviation.
6. Open the cover, ignite, detect, and print data automatically, and the test arm automatically rises and falls.
7. Humanized appearance design, beautiful, safe and easy to operate.
The biggest feature of this instrument is: the color display screen displays various setting parameters and test parameters, the whole test process is automatically completed, and the test results are automatically printed.

**Technical parameters**

| Model | YK-261-1 | YK-261A |
|---|---|---|
| Working power supply | AC(220±10%)V, 50Hz | AC220 (-10%～+5%)V, 50Hz |
| Heating device | ⑴ The furnace body is made of silicon carbide material, and the power is 600W electric heating wire.<br>⑵ The heating power is adjustable from 0 to 600W | - |
| Sample heating rate | Step A: (5~6) °C/min;<br>Step B: (1～1.5)°C/min;<br>automatic control. | Step A: (5~8)°C/min;<br>Step B: (1～1.5)℃/min;<br>Automatic control, manual adjustable. |
| Electric stirring device | ⑴ Stirring motor (BYGH101 stepping motor).<br>⑵ Transmission mode: flexible shaft connection.<br>⑶ Stirring blade specification: 8 ㎜×40 ㎜. | - |
| Stirring speed | Meet the requirements of GB/T 261-2008 standard.<br>⑴ (90～120) rpm, suitable for test step A.<br>⑵ (250±10) rpm, applicable to test step B. | ⑴ (90～120) rpm, suitable for test step A.<br>(2) (250±10) rpm, applicable to test step B.<br>Automatic control, manual fine-tuning. |
| Ignition device | ⑴ Ignition source: coal gas (or other civil combustible gas, the same below).<br>⑵ Igniter aperture: (0.7～0.8)㎜. | gas flame (ignited by gas ignition) |
| Temperature probe | Pt100 | - |
| Ambient temperature | ≤35°C | (10～40)℃; relative humidity: ≤80% |
| Relative humidity | ≤85% | - |
| Power consumption of the whole machine | not more than 650W | not more than 500W |
| Dimensions | 340 ㎜ ×330 ㎜ ×380 ㎜ (length×width×height) | (when the lifting arm is not lifted) 410 ㎜ ×360 ㎜×310 ㎜ (length×width×height);<br>(When the lifting arm is raised) 410 ㎜ ×360 ㎜×420 ㎜ (length×width×height). |

0086 16601757347
inquiry@yukelab.com
www.yukelab.com
0086 021 59570209

# 2 Full Automatic Closed Flash Point Test Device

**Brief introduction**

The YK-261D Full Automatic Closed Flash Point Test Device is designed and manufactured according to the requirements stipulated in the national standard GB/T261-2008 "Determination of Flash Point: Pensky-Martin Closed Cup Method". It is applicable to the method specified in this standard to determine the lowest temperature when the closed cup of petroleum products is heated under specified conditions until the mixture of its steam and air comes into contact with the flame and flashes, that is, the flash point of the closed cup method. The product can be widely used in customs, railway, aviation, electric power, petroleum industry and scientific research departments.

**The main features**

1. The core host adopts TI's AM3354 processor, Cortex-A8 core, 1GHz main frequency; the operating system adopts Windows Embedded Compact 7 real-time industrial control system. Completely abandon the single-chip microcomputer with no core and no operation streaking, truly realize the modernization of instrument control, and make the instrument enter a new era of intelligence.
2. The display adopts an imported 7.0-inch 800×480 pixel true-color TFT-LCD display; the keyboard adopts a human body induction touch screen. The operation interface is all in Chinese, the display is exquisite, intuitive and elegant, the operation is convenient, and the touch is free.
3. The historical data storage adopts NVM data memory storage, which can store 560 historical data, and the data can be stored for 10 years without loss, and the stored data cannot be changed.
4. The printer adopts a miniature embedded thermal printer, which prints more quietly, quickly and clearly.
5. Temperature measurement and control adopts imported PT100 platinum resistance temperature sensor, high-precision AD converter, excellent linear mathematical model, and unique control algorithm to make temperature measurement and control faster, more accurate and more stable.
6. The ignition is directly ignited by the electronic flame, which is exactly the same as the gas flame ignition, which is safe, convenient, fast, reliable and without interference.
7. The flash fire detection adopts the high-frequency ion ring flame detection technology, so that the instantaneous flash fire of the sample can be quickly and accurately captured, avoiding false detection and missed detection.
8. Atmospheric pressure measurement adopts an atmospheric pressure sensor with a fully digital structure imported from Germany to measure the local atmospheric pressure in real time and automatically correct the influence of atmospheric pressure changes on the measurement data.

0086 16601757347
inquiry@yukelab.com
www.yukelab.com
0086 021 59570209

9. Automatically complete heating, detection, calculation, printing and other operations.
10. The shell of the whole machine is made of engineering plastic ABS material, which is beautiful in appearance, lighter in weight than the previous metal shell, more convenient to move, and safer to operate.

**Technical parameters**

| | |
|---|---|
| Model | YK-261D |
| Measuring range | room temperature to 300°C |
| Measurement accuracy | 0.1°C |
| Repeatability | ≤4℃ |
| Ignition method | direct ignition with high-voltage self-excited arc technology |
| Flash fire detection | adopt pulse high voltage ion ring flame detection technology |
| Data storage | 560 historical data can be stored, which cannot be deleted, and will be kept when power off |
| Cooling method | strong air cooling |
| Ambient temperature | room temperature～45℃ |
| Ambient humidity | ≤85% |
| Power supply | 220±5% V.A.C |
| Frequency | 50±2.5% Hz |
| Power | 500W |
| Dimensions | 466×400×290mm |
| Instrument weight | 20Kg |

## 3. Quick Low Temperature Closed -mouth Flash Dot Testor

**Brief introdutction**

This YK-5208D Quick Low Temperature Closed -mouth Flash Dot Testor is designed and manufactured in accordance with the requirements of the People's Republic of China Standard GB/T 5208-2008 "Determination of Flash Point Rapid Equilibrium Closed Cup Method", which can meet the requirements of petroleum, chemical, coating, paint, railway, aviation, electric power, commodity inspection, Requirements of troops and scientific research units for closed flash point quick test of petroleum products.
This YK-5208D Quick Low Temperature Closed -mouth Flash Dot Testor is especially suitable for testing the closed-cup flash point of various paints, paints, adhesives, solvents, petroleum and related products with a closed-cup flash point within the range of 0°C to 100°C. the
The instrument also complies with the requirements of the ISO 1523 and ISO 3679 standards.

**The main features**

0086 16601757347
inquiry@yukelab.com
www.yukelab.com
0086 021 59570209

1. Designed according to the standard of GB/T 5208-2008 "Determination of Flash Point: Rapid Equilibrium Closed Cup Method", to achieve the purpose of fast and low temperature test of closed cup flash point.
2. Using semiconductor refrigeration device and external cooling water cooling device, the instrument is small in size, fast in cooling speed and easy to use.
3. There are few test samples, only 2ml is needed for each injection (4ml for each injection of solid or semi-solid samples).
4. In addition to ignition, the test process is automatically completed, and the test results are automatically printed.
5. Using touch screen control technology, the operation control is all completed on the display screen, with advanced functions and convenient operation.

**Technical parameters**

| | |
|---|---|
| Model | YK-5208D |
| Working power supply | AC(220±10%)V, 50Hz |
| Flash point detection range | (0～100)℃ |
| Measurement precision | The absolute difference between the two experimental results is less than 2°C (same operator); The absolute difference between the two experimental results is less than 3°C (different operators); |
| Temperature control accuracy | ±0.5°C |
| Ignition device | electronic ignition gun ignition |
| Gas supply source | artificial gas, liquefied petroleum gas (or other civil combustible gas); |
| Refrigeration method | semiconductor refrigeration (external cold water cycle); |
| Power consumption of the whole machine | not more than 300W; |
| Ambient temperature | (5～30)℃ |
| Relative humidity | (30～80)% |
| Dimensions | 370 ㎜×280 ㎜×280 ㎜ (length×width×height) |