# Shanghai Yuke Industry Co., Ltd


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# Company Profile

# 01

# Company Instruction

Shanghai Yuke is converted from Shanghai Geology Factory, which was affiliated to Geology and Mine Ministry of China.

Shanghai Yuke mainly develops and produces petroleum products analyzing instruments , highway detecting instruments, geological instruments and lab instruments. Shanghai Yuke is with strong technical strength,  large service team and sales, and strict quality manage system makes the market superior of  Yuke.

Before


# Company Instruction

Shanghai Yuke launches advanced products domestic and overseas with innovative concept continuously replying on 50 years' R&D experience in professional instruments. Among them, the automatic flash point tester, automatic viscometer, automatic moisture tester, automatic fluorescence sulfur analyzer, etc. have reached international leading level in technology. Won a wide range of trust and praise in the domestic and foreign customers. The sales value always be the first in domestic industry.

Now

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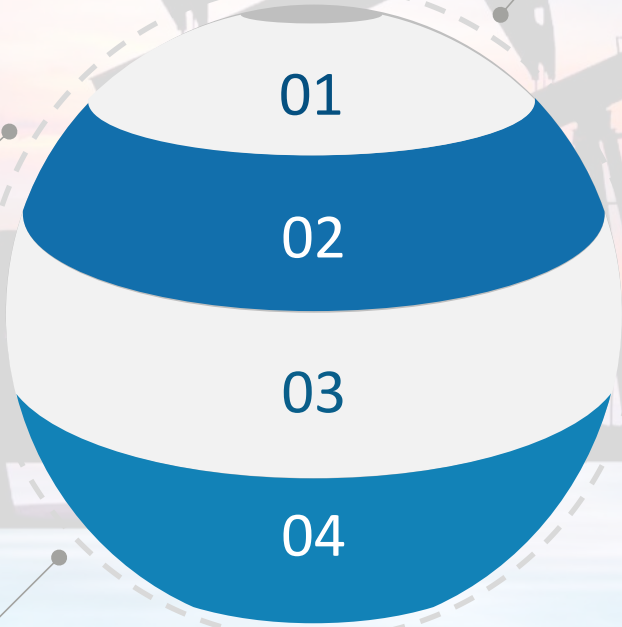
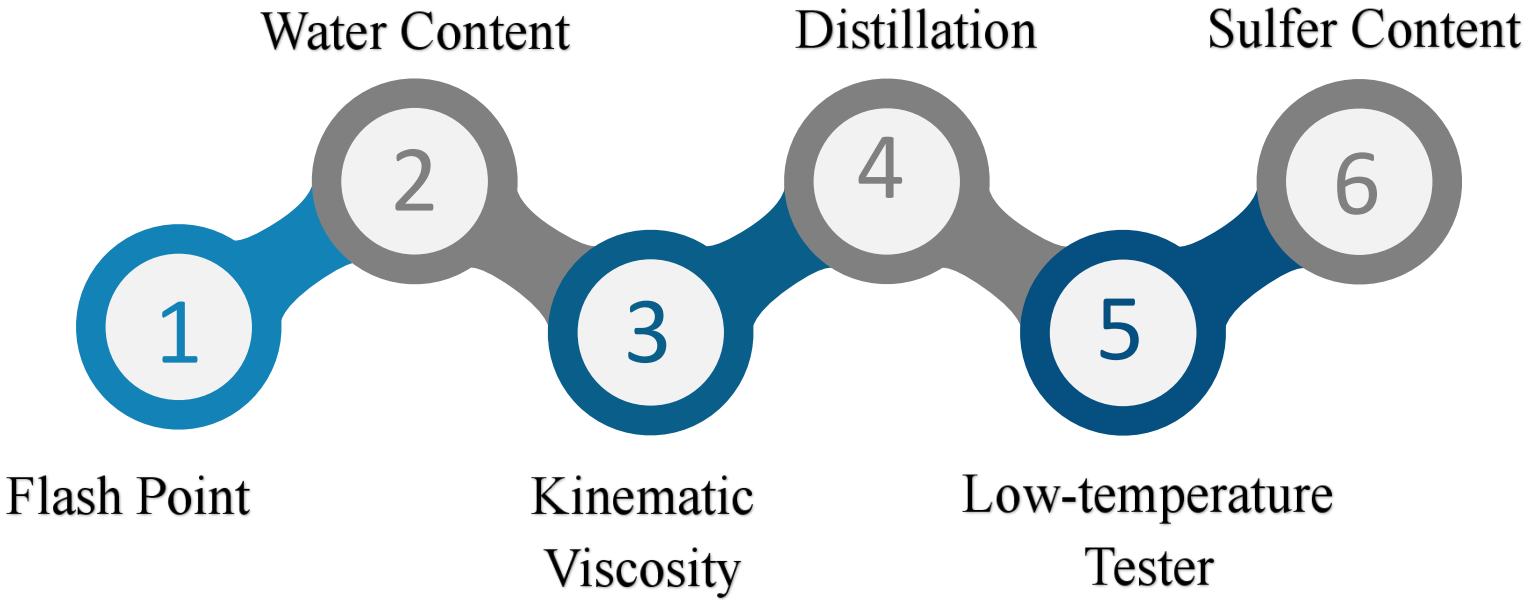
Common Indicators




Calorimeter

Fuel Oils

# Common Indicators



# 1.Flash Point-Open Cup-ASTM D92

**Flash Point:** *Flash and fire points are the crucial indicator for oil security, indicating the fire hazard extent of oil products and directly affecting the security of oil products in transportation, storage and use. The danger classification of oil products are classified as per the flash points; those with flash points below 45℃ are considered flammable goods.*

Open Cup Series:

| Model | YK-3536 | YK-3536-1 | YK-3536D |
|---|---|---|---|
| Range | Ambient-400℃ | | |
| Sample Volume | about 85ML | | |
| Ignition method | manual | manual | manual/automatic |
| Fire point (Yes/No) | Y | Y | Y |
| Automatic up/down | N | N | Y |
| Automatic detect | N | Auto-temperature | Y |
| With microprinter | N | N | Y |
| Communication Port | N | N | Buletooth |
| Screen Display | N | Digital display | Y |

# 1.Flash Point-Open Cup-ASTM D92

*YK-3536*
Cleveland Open-Cup Flash Point Tester

*YK-3536-1*
Cleveland Open Cup Flash Point Tester

*YK-3536D*
Automatic Cleveland Open Cup Flash Point Tester

# 1.Flash Point-Open Cup-ASTM D92

## Model: YK-3536

1.Power supply: AC（220±10%）V, 50Hz.

2.Power consumption: ≦650W

3.Heating device: furnace heating, no naked fire, explosion prevented.The power is adjustable from 0W to 600W.

4.Test flame applicator: It applies the test flame automatically.

5.Thermometer: (-6～400)℃. Scale is 2℃. It is the same as thermometer ASTM 11C.

6.Igniting device:

(1) Ignition source: coal gas(or civil gas)

(2) Nozzle aperture: about 0.8mm

7.Ambient temperature: (15~ 35)℃ , Relative humidity: ≤85%

8.Dimension: 350mm×290mm×350mm (thermometer is not included)

9.Net weight: 5.5kg.

# 1.Flash Point-Open Cup-ASTM D92

## Model:YK-3536-1

1. Power supply: AC（220±10%）V, 50Hz.
2. Heating device: Electric furnace heating, no naked fire, explosion prevented.The power is adjustable from 0W to 600W. The max heating temperature can reach 400℃.
3. Temperature control: Single chip microcomputer.The heating rate can meet requirements of standards GB/T 3536-2008 and ASTM D92.
4. Temperature display: LCD shows temperature parameters.
The display range is 0℃～400℃, display accuracy is 0.1℃.
5. Flash point detecting device: It applies the test flame automatically.
6. Temperature sensor: RTD, PT100
7. Igniting device: (1) Ignition source: coal gas (or civil gas)
(2) Flame diameter is 3.2mm～4.8mm
8. Ambient temperature: (-10~50)℃
9. Relative humidity: ≤85%
10.Maximum power consumption: 650W
11.Dimension: 340mm×320mm×450mm (Temperature sensor is included)

# 1.Flash Point-Open Cup-ASTM D92

## Model:YK-3536D

1. Power supply： AC（220±5%）V, 50Hz

2.Total power consumption：≦750W

3. Flash point determination： Range：Ambient to 400℃；Accuracy：0.1℃

4. Heating rate： (1)Initial heating：（14～17）℃/min

(2)It is (5-6) ℃ / min after reaching the preset flash point 20 ℃

5. Igniting mode：(1)Electric ignition,

(2)Diameter of igniter：0.7mm～0.8mm

6. Fire extinguishing device: (1) when the fire point appears, it can automatically extinguish the fire and return to its original position; (2) it can also manually press the key to extinguish the fire.

7. Data transmission mode：Bluetooth

8. Ambient temperature：(15～35)℃

Relative humidity：≤85%

9. Dimension：510mm×320mm×330mm

10. Net weight：20kg

# 1.Flash Point-Closed Cup

Closed Cup Series:

| Model | YK-261 | YK-261-1 | YK-261D | YK-5208 |
|---|---|---|---|---|
| Range | Ambient-230℃ | | | -30-100℃ |
| Automatic up/down | N | N | Y | N |
| With microprinter | N | N | Y | Y |
| Screen Display | N | Digtal display | Y | Y |
| Communication Port | N | N | Bluetooth | Y |
| Sample | Standard oil cup | Standard oil cup | Standard oil cup | 2mL |
| Automatic detect | N | Auto-temperature | Y | Y |

# 1.Flash Point-Closed Cup-ASTM D93

*YK-261*
Pensky-Martens Closed-Cup Flash Point Tester

*YK-261-1*
Pensky-Martens Closed-Cup Flash Point Tester

*YK-261D*
Automatic PMCC Flash Point Tester

# 1.Flash Point-Closed Cup--ASTM D93

## Model:YK-261

1. Power supply：AC (220±10%)V, 50Hz;
2. Total power consumption：≤650W;
3. Heating device: (1)The furnace body is made of silicon carbide
   (2)Heating power is adjustable from (0-600) w.
4.Heating mode: Adjust by manual.
5.Stir mode: Mechanical drive stirring.
6. Stirring rate: Procedure A: (90～120)RPM,
Procedure B: (250±10)RPM
Procedure C: (90～120)RPM
7. Oil cup：(1) Inner diameter: 50.7mm～50.8mm.
   (2) Depth: 55.7mm～56.0mm
   (3) The scribed line depth of capacity of testing oil: 33.9mm～34.3mm.
   (4) Capacity of testing oil:about 70ml
8. Igniting source: gas（or other civilian fuels，the same below）
9. Thermometers：Mercury-in-glass thermometer.Specifications are as below:
   (1)Scale -5℃～110℃, division 0.5℃。
   (2)Scale 20℃～150℃, division 1℃。

# 1.Flash Point-Closed Cup--ASTM D93

## Model:YK-261-1

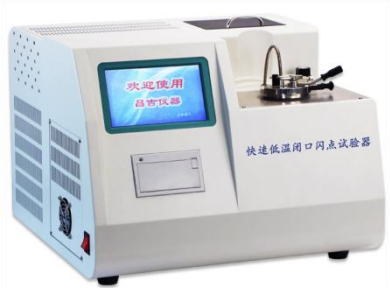
1. Power supply：AC( 220±10% )V, 50Hz.
2. Total power consumption：≤650W;
3. Heating device：
(1) The furnace is silicon carbide material. Power is 600W.
(2) The heating power is adjustable from 0 W to 600W.
4. Heating rate: Procedure A: (5～6)℃/min,
Procedure B:(1～1.5)℃/min.
Procedure C:(2.5～3.5)℃/min
5. Stirring device：(1)Stirring motor
(2) Driving mode: flexible shaft
(3) Shaft size: 8mm×40mm
6. Stirring rate: Procedure A: (90～120) RPM
Procedure B: (250±10) RPM
Procedure A: (90～120) RPM
7. Stand oil cup：
(1)Internal diameter：50.7mm～50.8mm
(2) Depth: 55.7mm～56.0mm
(3) Marking depth of oil testing capacity: 33.9mm～34.3mm;
(4) Oil test capacity: about 70ml;
8. Igniting device：
(1) Igniting source: gas（or other civilian fuels，the same below）
9. Suitable environment：
Ambient temperature：（15～35）℃
Relative humidity：≤85%
10.Dimension：
340mm×330mm×380mm
11.Net weight：9kg.

# 1.Flash Point-Closed Cup--ASTM D93

## Model:YK-261D

1. Power supply：AC(220±5%)V，50Hz
2. Total power consumption：≤600W
3. Flash point determination：Range: Ambient to 230℃
   Resolution ： 0.1℃
4.Heating rate：Procedure A: (5～6)℃/min,
Procedure B: (1～1.5)℃/min
Procedure C: (3.0±0.5)℃/min
5.Stirring rate：Procedure A and C: (90～120)RPM,
Procedure B: (250±10)RPM
   Automatic control and manually adjustable.
6.Igniting mode：(1)Electric ignition. (2)Diameter of igniter：
0.7mm～0.8mm
7. Data transmission mode：Bluetooth
8. Suitable temperature：Ambient temperature：(15～35)℃
   Relative humidity：≤85%
9.Dimension： 510mm×320mm×330mm
10.Net weight：20kg.

# 1.Flash Point-Closed Cup--GB/T 5208




*YK-5208*
Rapid Low Temperature Closed Cup Flash Point Tester

1.Flash point measuring range： -30℃～+100℃；
2. Precision of determination：it meets the standard GB/T 5208；
3. Temperature resolution：±0.1℃；
4. Igniting device：Electric igniting gun
5. Cooling mode：Semiconductor (No need for external cooling water)
6. Igniting source: gas，LPG（or other civilian fuels）
7. Power supply：AC（220±10%）V，50Hz
8. Total power consumption：≦300W;
9. Ambient temperature：5℃～30℃
Relative humidity：（30～80）%
10.Dimension：490mm×520mm×390mm
11.Net weight： 25.5kg.

# 2.Water Content--ASTM D95

## YK-260A:

1. Power supply： AC(220±10%)V，50Hz
2.Total power consumption： ≤2200W
3. Heating control： Can be continuously adjusted by a silicon knob, manual.
4. Suitable environment：
Ambient temperature： （15-35）℃
Relative humidity： ≤85%
6.Dimension： 430mm×320mm×700mm
7.Net weight：8.5kg.

two samples

# 2.Water Content--ASTM D1533

## YK-2122C:

1.Titration method： microprocessor controlled titration.

2.Electrolytic current output：0-400MA automatic control.

3.Display system：LCD color 7 inch large screen display.

4.Man-machine dialogue mode：touch screen input.

5. Sensitive valve： 0.1ugH2O.

6.Accuracy： 10ug - 1mgH2O is ±3ug,1mgH2O above, 0.3% (excluding injection error).

7.Power consumption： Less than 100W.

8.The use of environment： temperature 5℃ - 40℃, humidity less than 85%.

9.Power supply：AC220V±10% 50Hz±2.5Hz.

# 3.Kinematic Viscosity--ASTM D445

Kinematic Viscosity Series:

| Model | YK-265B | YK-265C | YK-265H | YK-265H-1 | YK-265G |
|---|---|---|---|---|---|
| Test Temp. | Room temp.~100℃ | | | 20℃~120℃ | -70℃ ~ Room temp. |
| Temp. Accuracy | ±0.1℃ | | ±0.01℃ | ±0.02℃ | 0.1℃ |
| Test Hole Number | Two holes | Four holes | | Two holes | Two holes |
| Automatic | Manual | | Intelligent | Automatic | Manual |
| Capillary | Pinkevitch | Pinkevitch (Standard) Cannon-Fenske (Optional) Ubbelohde capillary (Optional) | Pinkevitch | Pinkevitch(Special) | Pinkevitch |

# 3.Kinematic Viscosity--ASTM D445

*YK-265B*
Kinematic
Viscosity Tester

*YK-265C*
Kinematic
Viscosity Tester

*YK-265H*
Intelligent
Kinematic
Viscosity Tester

*YK-265H-1*
Automatic
Kinematic
Viscosity Tester

# 3.Kinematic Viscosity--ASTM D445

## Model:YK-265B

1. Power supply： AC(220±10%)V，50Hz
2. Total power consumption：≤650W
3. Stirring motor：1200RPM
4. Temperature control range： Ambient to 100℃
5. Temperature control accuracy： ±0.1℃
6. Temperature sensor： RTD, Pt100
7. Timing range：0s～9999.9s
8. Ambient temperature： 15℃～35℃

Relative humidity： ≤85％

9. Capillary viscometer tubes (Pinkevitch viscometer)：6 pieces in total, inner diameter for each：0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm, 2.0mm
10. Dimension： 500mm×310mm×500mm
11. Net weight：11.5kg.

# 3.Kinematic Viscosity--ASTM D445

## Model:YK-265C

1. Power supply： AC(220±10%)V，50Hz
2. Maximum power consumption： 1800W
3. Stirring motor： 1200RPM
4. Temperature control range： Ambient to 100℃
5. Temperature control accuracy： ±0.1℃
6. Timing range：0s～9999.9s；
7. Constant temperature bath： 20L,double shell structure
8. Working environment： Ambient temperature: 15℃～35℃
   Relative humidity: ≤85％
9. Temperature sensor： RTD, Pt100
10. Capillary viscometer tubes (Pinkevitch viscometer)：6 pieces in total, inner diameter for each: 0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm, 2.0mm
11. Dimension： 530mm×400mm×670mm
12. Net weight：20.5kg.

# 3.Kinematic Viscosity--ASTM D445

## Model:YK-265H

1. Power supply：AC(220±10%)V, 50Hz;
2. Total power consumption： ≤1800W;
3. Temperature range：Ambient to 100.0℃
4. Temperature control accuracy：±0.01℃
5. Bath capacity：20L
6. Timing range： 0.0s～9999.9s
7. Timing accuracy： ±0.05% within 60min
8. Amount of capillary viscometer tubes： 4 capillary viscometers
9. Stirring motor：1200 RPM
10. Working condition： 15℃～35℃, RH: ≤85％
11. Temperature sensor： RTD, Pt100
12. Capillary viscometers tubes(Pinkevitch viscometer)：6 pieces in total.The inner diameter for each: 0.6mm, 0.8mm, 1.0mm, 1.2mm, 1.5mm, 2.0mm
13. Dimension： 530mm×400mm×670mm Net weight：42kg.

# 3.Kinematic Viscosity--ASTM D445

## Model:YK-265H-1

1.Power Supply: AC(220±10%)V, 50Hz

2.Heating power consumption：1200W

3.Temperature control range: 20℃ ～120℃, accuracy: ± 0.02 ℃,(if do 20℃, need to choose a low-temperature bath HWY-3)

4.Temperature sensor: PT100

5.Detection method: Fiber optic detection

6.Screen: 8.4 Inch colour touch screen

7. Ambient temp.: 5℃～40℃，RH≤85％

8. Dimension：360mm×450mm×670mm（L×W×H）

9. Net weight: 35kg

# 3.Kinematic Viscosity--ASTM D445

## Model:YK-265G

1. Power supply: AC(220±10%)V 50Hz
2. Heating device: Electric heater, power≤600 W
3. Refrigeration unit: Double refrigeration compressors
4. Temperature range:  -65℃～room temp.
5. Temperature control accuracy: ±0.1 ℃
6. Constant temperature bath:  stainless steel.
7. Ambient temperature: 15℃～35℃

Relative humidity: ≤85%

8. Temperature sensor: RTD, Pt100
9. Capillary viscometer tubes(Pinkevitch viscometer): 6 pieces in total. The diameters for each is 0.6, 0.8, 1.0, 1.2, 1.5, 2.0 mm.
10. Maximum power consumption: 1700 W
11. Dimension: 530mm×460mm×870mm

# Kinematic Viscosity--ASTM D7279

*YK-0956B*
*Automated Houillon Viscometer*

Temp range: ambient~150℃,
Accuracy:0.01℃

# 4.Distillation--ASTM D86

| Model | YK-6536 | YK-6536A | YK-6536C | YK-6536B | YK-6536D |
|---|---|---|---|---|---|
| Sample Qty. | one | two | one | two | one |
| Test Temp. | （ambient temp.+10）℃～60℃ | | 0 ℃ to 60 ℃ | | |
| Accuracy | ±0.5℃ | | | | |
| Temp. control range, accuracy of receiving room | no | | | (0-ambient) ℃, ±1℃ | |
| Temp. Display | LED temp.controller | | | | Industrial control LCD screen |
| Distillation rate | Voltmeter Adjustment by hand | | | | Automatic |
| Liquid level tracking | by eye | | | | Automatic |
| Temp. record | manual | | | | Automatic |
| Data transmission | no | | | | Yes |
| Print function | no | | | | yes |
| **Application** | Fuel oil,naphtha,diesel,distillate fuel | | Fuel oil,naphtha,diesel,distillate fuel,gasoline,volatile organic liquid,light oil | | Nature gasoline,motor gasoline,aviation gasoline,jet fuel,solvent oil,naphtha,kerosene,diesel,distillate fuel |

# 4.Distillation--ASTM D86

With Refrigerated compressor

YK-6536
Single

YK-6536A
Double

YK-6536C
Single

YK-6536B
(Double)

YK-6536D
Automatic
Updating in progress

# Model:YK-6536 Petroleum Product Distillation Tester

1. Power supply： AC(220±10%)V, 50Hz
2. Total power consumption： ≤2000W;
3. Receiving cylinder： 100ml，scale division 1ml
4. Distillation flask： 125mL. It can meet requirements GB/T 6536 and ASTM D86
5. Water bath' temperature controlling:
   (1) Range： （ambient temp.+10）℃～60℃
   (2) Accuracy： ±0.5℃
6. Ambient temperature：15℃～35℃
   Relative humidity： ≤85%
7. Dimension：460mm×400mm×550mm
8. Net weight：18.5kg.

# Model:YK-6536A Petroleum Product Distillation Tester

1. Power supply： AC(220±10%)V, 50Hz
2. Total power consumption：≤4000W
3. Receiving cylinder： 100ml, division value 1ml.
4. Distillation flask： 125ml,meet the requirements of GB/T 6536 and ASTM D86
5. Thermometer： (-2~300)℃ and (-2~400)℃, division value 1℃
6. Flask support board： Sic, bore diameter φ32mm, φ38mm, φ50mm.
7. Temperature controller:

(1) Range：(Ambient +10)℃～60℃

(2) Accuracy： ±0.5℃

(3) Display： LED

8. Ambient temperature： 15℃～35℃

Relative humidity： ≤85%

9. Dimension：760mm×520mm×500mm Net weight：40kg.

# Model:YK-6536C Petroleum Product Distillation Tester

1. Power supply：AC（220±10%）V, 50Hz;
2. Heating power：≤2300W
3. Electric furnace heating power：1300W
4. Receiving cylinder：100 ml. Scale division 1 ml.
5. Distillation flask：125 ml, as per GB/T6536 and ASTM D86.
6. Thermometer：Total immersion. They are from ( -2 to 300 )℃ and from (-2 to 400) ℃. The scale divisions of them are 1 ℃.
7. Flask support board：Sic. Diameters of holes are φ32mm, 38mm, and 50mm.
8. Temperature controller of condensing tube：

(1) Range：0 ℃ to 60 ℃

(2) Display：LED

9. Ambient temperature：15℃～28℃

Relative humidity：≤85%

10. Dimension：540mm×435mm×515mm，Net weight：30kg.

# Model:YK-6536B Petroleum Product Distillation Tester

1.Power supply:  AC(220±10%)V, 50Hz

2.Total power consumption:  ≤3500W;

3.Cool mode: compressor refrigeration;

4.Furnace heating power: 1300W*2;

5.Receiving cylinder: 100ml, division value is 1ml.

6.Distillation flask: 125ml,meet the requirements of GB/T 6536 and ASTM D86

7.Thermometer:(-2~300)℃ and (-2~400)℃. Division value 1℃.

8.Flask support board: SiC, bore diameter is: φ32mm, φ38mm, φ50mm.

9.Condenser temperature controlling :

(1) Range: 0 ℃ to 60 ℃

(2) Accuracy: ±0.5℃

(3) Display: LED

10.Receiving chamber:

(1)Range：（0-room temp.）

(2)Display: LED

11.Suitable environment:

Ambient temperature: 15℃～28℃

Relative humidity: ≤85%

12. Dimension: 700mm×520mm×580mm

13. Net weight: 60kg.

# Model:YK-6536D Automatic Distillation Tester

1. Temperature range of bath： (0～60)℃
2. Temperature control precision of bath： ±0.5℃
3. Temperature range of receiving chamber： (0～60)℃
4. Temperature control precision of receiving chamber： ±1℃
5. Distillation heater： 1000W, 24V
6. Distillate liquid detection： （0～100)mL，resolution 0.01mL
7. Distillate liquid detection precision： ≤0.1mL
8. Power supply： AC(220±10%) V, 50Hz
9. Maximum power consumption： 2500W
10. Working environment： Ambient temp.（10～35)℃；RH≤80%
11. Dimension： 500mm×530mm×660mm
12. Net weight： 85kg

# 4.Vacuum Distillation Tester

YK-0165A
Vacuum Distillation
Tester

YK-0165B
Automatic Vacuum
Distillation Tester

YK-9168A
Petroleum Product
Vacuum Distillation
Tester
ASTM D1160

# Model:YK-0165A Vacuum Distillation Tester

1. Power supply：AC(220±10%)V, 50Hz
2. Heating power：Heater for distillation flask：1300W，Heater for receiver：350W
3. Heating furnace of distillation flask：(0～1300)W, continuously adjustable
4. Temperature control point of air bath of receiver：Ambient to 100℃, continuously adjustable
5. Temperature sensor of air bath：Pt100,RTD
6. Temperature control precision：Set temp.±1℃
7. Capacity of buffer vessel：1000ml
8. Max. residual pressure：2mmHg
9. Digital pressure gauge：（0~200）mmHg
10. Illumination light in the air bath ：Energy saving lamp
11. Working condition：Ambient temp.：(15～35)℃
    RH：＜85％
12. Dimension：600mm×250mm×650mm

# Model:YK-0165B Vacuum Distillation Tester

1. Power supply： AC(220±10%)V , 50Hz；
2. Total power consumption：≤1700W；
3. Heating furnace of distillation flask： (0～1300)W, adjustable；
4. Setting range of vacuum residual pressure： (2～50) mmHg；
5. Accuracy of vacuum residual pressure：±0.5mmHg；
6. Heating power of receiver： 350W，automatically controlled；
7. Temperature control point of receiver： （20～50）℃±3℃, adjustable；
8. Working condition： Ambient temp.：(15～35)℃ RH：＜85％
9. Dimension： 600mm×230mm×610mm
10. Net weight：30kg.

# Model:YK-9168A Petroleum Product Vacuum Distillation Tester

1. Power supply： AC220V 50Hz.

2.Total power consumption： ≤1800W

3. Power of flask heating furnace: (0～500)W; adjustable

4. Temperature control range of condensate circulating water: Ambient+5℃（Min. 30℃）～80℃±3℃; adjustable

5. Working Mode of condensate trap: Semiconductor refrigeration. Minimum temperature: ≤ - 40 ℃;

6. Absolute pressure setting: 2mmhg, 5mmhg, 10mmhg, 20mmhg, 50mmhg

7. Absolute pressure measurement range: (1.00-170.00) mmHg

8. Absolute pressure control accuracy:

Pressure<1kPa(7.5mmHg),accuracy<0.01kPa(0.075mmHg)

Pressure≥1kPa(7.5mmHg), accuracy≤1% of Absolute pressure

9.Working environment: temperature: 15 ℃ ~ 35 ℃, relative humidity: ≤ 85%

10. Dimension: 800mm×500mm×900mm

11. Net Weight: 78kg

# 5.Low Temperature Series

YK-510G
Low Temperature Tester
(-70℃~0℃)

YK-510D
Low Temperature Tester
(-70℃~0℃)

It can do cloud point, pour point

YK-510F1
Multifunctional Low-temperature Tester

It can do cloud point, solidfying point, pour point,CFPP

LC-2 Cold Filter Plugging Point Filter

YK-3535Z
Automatic pour point and cloud point tester (-70℃~60℃)

It can do cloud point, solidfying point, pour point,CFPP

**Optional**: It can equip with different accessories, it can realize solidfying point or CFPP.

YK-2430A
Automatic Freezing Point Tester (refer to ASTM D1177)

# 5.Model: YK-510G Low Temperature Tester

## (Optional :solidfying point or CFPP)

1. Power supply： AC（220±10%）, 50Hz
2. Working chamber： Two test baths in one chamber. The temperatures are the same.
3. Temperature range： -70℃～0℃
4. Temperature control accuracy： ±0.5℃
5. Refrigeration： New-type refrigeration compressor
6. Ambient temperature： 15℃～35℃
7. Relative humidity： ≤85%
8. Power consumption： ≤1000W
9. Dimension：620mm×460mm×340mm

# 5.Model: YK-510D Low Temperature Tester

## (cloud point, pour point)

1. Power supply: AC 220 V±10%, 50 Hz;
2. Temperature control of chamber:

(1) Chamber I: Ambient to -51 ℃, ±1 ℃, temperatures of two cooling baths the same.

(2) Chamber II: Ambient to -70 ℃, ±1 ℃, temperatures of two cooling baths the same.

3. Refrigeration system: New type refrigeration compressor
4. Ambient temperature: ≤30 ℃
5. Relative humidity: ≤85%
6. Maximum power consumption: 1500 W
7. Dimension: 800mm×580mm×400mm

# 5.Model:YK-510F1 Multifunctional Low-temperature Tester

1. Power supply：AC（220±10%）V 50Hz

2. Power consumption： less than 1700W

3. Cold bath temperature control:

(1)Chamber I: -17℃～0℃,accuracy±0.5℃, temperatures in two cold baths are the same.

(2)Chamber II: 30℃ or -34℃ fixed

(3)Chamber III: -51℃～-34℃,accuracy±0.5℃,temperatures in two cold baths are the same.

(4)Chamber IV: 30℃ or -70℃ fixed

4. Refrigerating method: Compressor refrigeration

5. Suitable temperature：15℃～28℃

Relative humidity： ≤85%

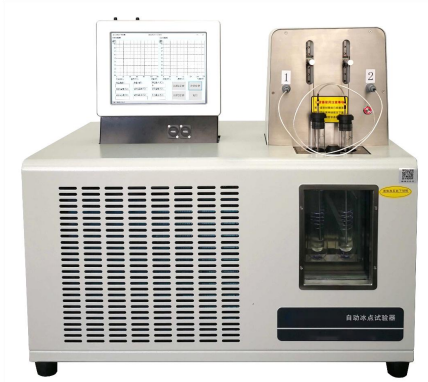
6.Dimension： 810mm×500mm×840mm Total weight：100kg


# 5.Model:YK-3535Z Automatic pour point and cloud point tester

1. Working power supply: AC220V±10%, 50Hz Maximum power: 2kw
2. Temperature control range: -70℃～+60℃ (cascade type)
3. Temperature control accuracy: <±0.1℃
4. Resolution: 0.1℃
5. Display mode: 10-inch color LCD touch screen
6. Heating mode: electric heating
7. Detection mode: imported infrared photoelectric detection technology
8. Refrigeration system: imported compressor refrigeration

# 5.Model:YK-2430A Automatic Freezing Point Tester --ASTM D1177

1. Power supply： AC（220 ±10%）V, 50 Hz;
2. Total power consumption：2000 W
3. Working bath： stainless steel,double vacuum glass observing window.
4. Freezing point range：-54℃～2℃.
5. Cold bath measurement temperature： -70℃～30℃
6. Temperature controlling accuracy：±0.1℃
7. Refrigerator system:imported refrigerator compressor
8. Sample stirring： mechanical stirring is（60～80）r/min,continuously adjustable
9. Ambient temperature：（15～28）℃.
10. Relative humidity：≤80%
12. Dimension：770mm×480mm×730mm
13. Net weight：45kg.



# Existent Gum Series

# Oxygen Stability Series

YK-8019A
Existent Gum Tester

YK-0193 (ASTM D2272 Oil bath)
Lubricating Oils Oxidation Stability Tester

YK-0193B
Automatic Lubricating Oils
Oxidation Stability Tester
(ASTM D2272)

YK-509A
Motor Fuels Existent Gum
Tester

YK-0175
Distillate Fuel Oils Oxidation
Stability Tester
(ASTM D2274)

# Vapor Pressure Tester--ASTM D323

*YK-8017*
Vapor Pressure Tester
(Reid Method)


*YK-8017A*
Automatic Vapor
PressureTester
(Reid Method)

*YK-8017L*
Vapor Pressure
Water Bath

# Model: YK-8017 Vapor Pressure Tester (Reid Method)

1. Power supply： AC(220±10%)V, 50Hz
2. Total Power consumption： ≤1700W
3. Temperature control range of bath： (Room temp.~90)℃
4. Temperature control accuracy of bath： ±0.1℃
5. Accuracy of pressure meter： 0.4%F·S
6. Ambient temperature： (15~35)℃

Relative humidity： ≤85%

7. Dimension： 350mm×340mm×750mm

# Model: YK-8017A Automatic Vapor Pressure Tester

1. Power supply： AC(220±10%)V, 50Hz
2. Maximum power consumption： 1000W
3. Test bomb： Can do 3 bomb tests at the same time.
4. Water bath temperature： 37.8℃
5. Temperature control accuracy： ±0.1℃
6. Pressure range： (0～200)kPa
7. Suitable environment:

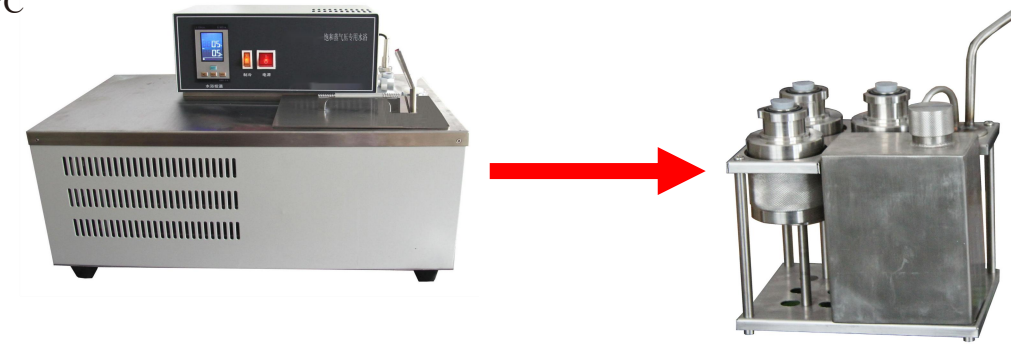
Ambient temperature： (15～35)℃

Relative humidity： ≤85%

8. Dimension：810mm*440mm*490mm
9. Net weight：47kg.

# Model: YK-8017L Vapor Pressure Water Bath

1. Power supply： AC(220±10%)V, 50Hz
2. Temperature range： -5℃～50℃
3. Temperature accuracy： ±0.2℃
4. Temperature control setting of cold bath： （0~ 1）℃
5.Diameter of coolable bomb: no more than 61mm
6. Coolable quantity：three
7.Room temperature： -10℃～+30℃
8. Relative humidity： ≤85%
9.Dimension： 530mm*400mm*430mm
10. Total power consumption：no more than 1100W.



# Sulfur Content


*YK-17040A*

X-ray Fluorescence Sulfur-in-Oil Analyzer

*(GB/T 17040 ASTM D 4294)*

**Test range:**

0.005%～5%

*YK-0689*

Ultraviolet Fluorescence Sulfur-in-Oil Analyzer

*(SH/T 0689 ASTM D 5453)*

**Test range:**

(0.1～10000)mg/L

# Model: YK-17040A X-ray Fluorescence Sulfur-in-Oil Analyzer

(1) Measuring range: 0.005%～5%

(2) Repeatability (r): ＜0.4347 X0.6446

(3) Reproducibility (R): ＜1.9182 X0.6446

(4) Detection limit: 50 ppm

(5) Oil sample quantity: 3 ml-5ml.

(6) Measurement time: it can preset 30, 60, 90, 120, 150s, measurement repeat times:1, 2, 3, 5, 10(times).

( The default measurement time of this instrument is 3 minutes, and the fastest measurement time is 1 minute.)

(7)Sample measurement:

Automatic measurement of single sample, average value and standard deviation at the end of measurement.

(8)Calibration curve numbers:

it can save 10 calibration curves.

(9)Working condition:

Ambient temperature: (10～30)℃

Relative humidity: ≤85% (30℃)

(10)Dimension: 480mm×380mm×140mm\

(11)Weight:13kg.(Net weight)

# Model: YK-0689 Ultraviolet Fluorescence Sulfur-in-Oil Analyzer

1.Test method: Pulsed ultraviolet fluorescence method

2.State of measurable samples: Liquid, gas, solid

3.Measurement range： 0.1mg/L～10000mg/L (Liquid)

4.Lower detection limit: 0.05mg/L

5.Repeatability error:

X≤0.5mg/L； ±0.1mg/L

0.5mg/L＜X≤1.0mg/L； Cv≤10%

1.0mg/L＜X≤5.0mg/L； Cv≤5%

X＞5.0mg/L； Cv≤2.5%

6.Temp. range: room temperature～1200℃;

7.Temp. control accuracy: 0.5%±1℃

8.High voltage range: DC 0V～900V, according to the concentration of the measured sample, set the required value through the operating system

9.Power supply : AC 220V±22V，50Hz±1Hz

10.Total power consumption: ≤3kW

11.Dimension： 660mm×500mm×400mm (Computer is not included)

12.Net weight： 40kg (Computer is not included)

13.Default Unit mg/L, if input the density, the unit is changed mg/kg

# Other Instruments


YK-0168
Petroleum Products Color Tester

YK-5096A
Copper Strip Corrosion Tester

Water Content

YK-8929A
Crude Petroleum Water Content Tester

YK-260A
Water Content Tester

YK-1884
Petroleum Products Density Tester


ZL-1
Portable Cooler

YK-508
Ash Content Tester

YK-511B
Mechanical Impurity Tester

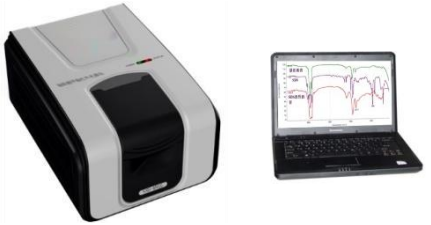
# Other Instruments

YK-30011
Carbon Residue Tester

YK-17144A
Carbon Residue Tester (Micromethod)

YK-11132
Liquid Petroleum Products
Hydrocarbon Tester
Updating in progress

YK-33400



YK-0916

# Fuel Oil Instruments

# Fuel Oil Instruments

YK-17040A
*(GB/T 17040  ASTM D 4294)*
X-ray Fluorescence Sulfur-in-Oil Analyzer
**Test range:**
0.0017%～5%


XRY-1C
*(GB/T 384,GB/T  213 ASTM D2430)*
Automatic Oxygen Bomb Calorimeter
**Test range:**
5MJ/kg～40MJ/kg

YK-264B
*(GB/T 7304,GB/T 18609  ASTM D664)*
Total Acid Number Tester
**Test range:**
≥0.05 mgKOH/g

# Lubricating Oil / Grease Instruments

# Lubricating Oil Instruments

Oxidation Stability

YK-0193B
Lubricating Oils Oxidation Stability Tester
**Metal bath heating,**
**IPC, automatic**

Demulsibility Characteristics

YK-7305A
Automatic Demulsibility Characteristics Tester
**Automatic up/down**

YK-0059A
Lubricating Oil Evaporating Loss Tester
(Noack A method)

YK-11143
Lubricating Oils Rust-preventing Characteristics Tester

YK-6538
Automatic Engine Oils Apparent Viscosity Tester

YK-12579
Foaming Characteristic Tester
With ZL-1

# Model: YK-0193B Automatic Lubricating Oils Oxidation Stability Tester

1.Temperature control point for oil bath：140℃、150℃

2.Temperature control accuracy： ±0.1℃

3.Range for pressure sensor： (0～1.6)MPa

4.Pressure accuracy：±0.5%

5.Working mode：metal bath

6.Rotation speed： (100±5)r/min

7. Included angle between oxygen bomb and water level： 30°

8. Power supply： AC(220±10%)V, 50Hz；

9. Total power consumption： <1000W

10.Working Temperature: 15℃～28℃

11.Relative humidity: ≤85%

12.Dimension： 280mm×500mm×510mm

13.Net weight： about 30Kg

# Model: YK-7305A Automatic Demulsibility Characteristics Tester

1. Temperature range： (Room temp.~ 100)℃
2. Temperature control accuracy： ±0.1℃
3. Data storage: 350 groups test data
4. Stirring time：(0~100)min
5. Timing：(0~99.9)h
6. Testing hole：4 samples
7.Power supply： AC(220±10%)V, 50Hz
8. Maximum power consumption： 1500W
9. Ambient temperature： (5~ 40)℃

Relative humidity： ≤85%

10.Dimension: 520*330*550mm

11.Net weight: 23kg

# Model: YK-0059A

Lubricating Oil Evaporating Loss Tester (Noack A method)

1.Power supply： AC（220 ±10%）V, 50 Hz;

2.Total Power Consumption: ≤1600W

3.Temperature control range: Room Temperature～250℃

4.Temperature controlling accuracy： ±0.5℃

5.Temperature control mode: Automatic

6.Heating way: Metal bath heating

7.Heating Power: 1200W

8.Suction way: vacuum pump

9.Working environment: Temperature 15℃～35℃; Relative humidity:≤85%

10. Dimension:

Main unit(heating control part) 320mm×280mm×500mm

Auxiliary machinery(stable pressure suction section) 410mm×

320mm×450mm

(L*W*H,without vacuum pump)

# Model: YK-6538 Automatic Engine Oils Apparent Viscosity Tester

1.Measuring range: （-50~100）℃

2.Measuring temp. accuracy:±0.5℃

3.Cooling range: -50℃ ~ambient

4.Temp.control accuracy:±0.05℃

5.Measurement range: 1200mPa•s ~27000mPa•s

6.Power supply: AC(220±10%)V,50Hz

7.Heating power consumption: 800W

8.Total power consumption: 2000W

9.Environment temperature: -40~30℃

Relative humidity: no more than 80%

10.Maximum Dimension:main unit:420mm×300mm×620mm(L*W*H)

Cold bath:500mm×530mm×615mm

# Model: YK-11143 Lubricating Oils Rust-preventing Characteristics Tester

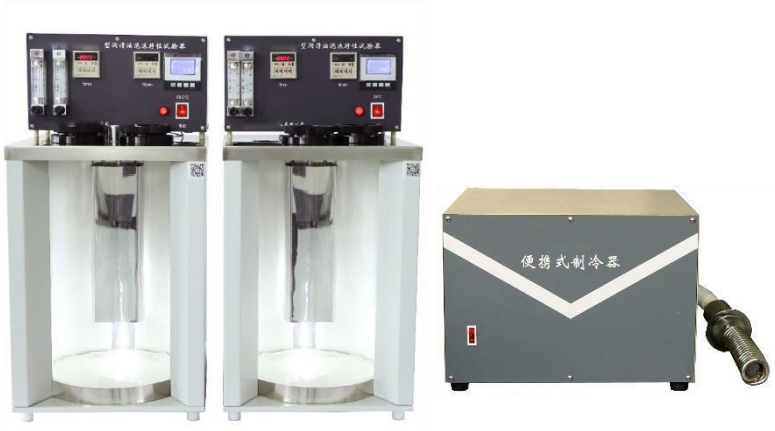
1. Power supply： AC(220±10%)V, 50Hz
2. Total power consumption： ≤1800W
3. Temperature range： room temp.～100℃
4. Temperature control accuracy： ±1℃.
5. Temperature sensor： RTD, Pt100
6. Temperature display： Digital display
7. Timing range： 1min～24hour, can be set at will
8. Time display： Digital display
9. Temperature control heating power： 1600W
10. Rotate speed of stirring motor： 1400RPM
11. Sample stir rate： (1000±50)r/min
12. Sample testing positions： Four positions
13. Ambient temperature： (15～35)℃

Relative humidity： ≤85％

14.Dimension： 580mm×320mm×600mm

# Model: YK-12579 Foaming Characteristic Tester

1. Power supply： AC(220±10%)V, 50Hz
2.Total power consumption： ≤2700W
3. Air flow rate： (94±5)ml/min,adjustable
4. Temperature control range for high temperature bath： (Room temp.~99.9)℃
5. Temperature control range for low temperature bath： (5~99.9)℃
6. Temperature control accuracy： ±0.5℃
7. Timer： 5min and 10min，accurate to second
8.Ambient temperature： (15~35)℃
Relative humidity： ≤85%
9.Dimension： Main unit：690mm×460mm×700mm
Cooler：400mm×450mm×300mm
10.Net weight： 48kg.

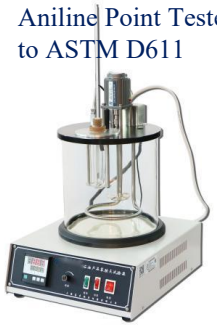


# Lubricating Grease Instruments

YK-2801E1
Penetrometer
refer to ASTM D 217

YK-4929A
Dropping Point Tester
refer to ASTM D566

YK-262A
Aniline Point Tester refer
to ASTM D611



YK-3498A
Auto Wide Temperature Range
Dropping Point Tester
refer to ASTM D2265

YK-2806MB Fully automatic
softening dropping point tester
refer to ASTM D3104, ASTM
D3461, ASTM D3954ASTM
D6090

# Model: YK-2801E1 Penetrometer

1.Power supply: AC（220±10%）V, 50Hz;

2.Measurement range: 0 penetration～600 penetrations;

3.Resolution: 0.1 penetration(0.01mm);

4.Timing range: 5s, 8s, 10s, 12s, 30s, 60 s, and the error is less than ±0.1 s;

5.Power consumption: 200W;

6. Temperature control accuracy: 25 ℃± 0.1 ℃

7. Constant temperature bath: hard glass chamber

8. Stirring: magnetic stirrer, rotary stirring

9.Working environment: Temperature: (15～35)℃;Relative humidity：≤85%

11.Dimension: 260mm×400mm×640mm;(L*W*H)

12. Net weight: 16kg.

# Model: YK-4929A Dropping Point Tester(Oil bath)

1.Power Supply: AC(220±10%)V  50Hz

2.Total Consumption: ≤900W

3.Oil Bath: 600ml Beaker

4.Grease Cup: It is made of chrome plated brass, inner diameter: 9.92mm, oil dripping hole: 2.8mm, cup height: 12mm

5.Test Tube: Heat resistant borosilicate glass tube with edge, inner diameter: 11.1 mm to 12.7 mm, and there are three grooves on the circumference 19 mm away from the bottom to support the grease cup

6.Thermometer: Temperature range: (- 5 ~ 300) ℃; division value: 1 ℃

7.Stirring motor: 60R / min

8.Working environment：Temperature：(15～35)℃; Relative humidity：≤85%

9.Dimension: 350mm×180mm×410mm

10.Net Weight: 8kg

# Model: YK-262A Aniline Point Tester

1. Power supply： AC(220±10%)V, 50Hz
2. Heating power： ≤2100W
3. Temperature range： Ambient to 200℃
4. Temperature precision： ≤0.5℃
5. Suitable environment：

Ambient：15℃～35℃，

RH：≤85%；

6.Dimension：370mm×520mm×460mm

6. Net weight：14kg

# Model: YK-3498A Auto Wide Temperature Range Dropping Point Tester

1.Testing holes：4 holes

2. Temp. control accuracy：±0.5℃

3. Temp.control range：ambient temp. ～350℃

4. Constant temp. bath: metal bath

5. Temperature control points: 121 ℃, 232 ℃, 288 ℃, 316 ℃, 343 ℃

6. Total power consumption：1000W

7. Dimension：410mm*260mm*600mm

Net weight：16kg.

8.Power supply：AC220V±10% 50Hz

# Model: YK-2806MB

Fully automatic softening dropping point tester

| Item | Specification | Item | specification |
|---|---|---|---|
| Temp. Range | RT~400℃ | Resolution | 0.01℃ |
| Detection Mode | Auto ( manual ) | Heating Rate | 0.1~20℃/min |
| Accuracy | ±0.2 (<250℃)<br>±0.2 (>250℃) | Display Mode | 10.1-inch color screen |
| Image | image can be scaled | Testing hole | Two holes |
| Data Interface | Wifi and Serial port | File Format | PDF & Excel |
| Power Supply | AC(220±10%)V 50Hz | Power Consumption | 120 W |

# Electrochemical Instruments

# Electrochemical Instruments

YK-0657 Petroleum Products Nitrogen Analyzer

YK-0689 Ultraviolet Fluorescence Sulfur-in-Oil Analyzer

YK-0689N Ultraviolet Fluorescence Sulfur,Nitrogen-in-Oil Analyzer

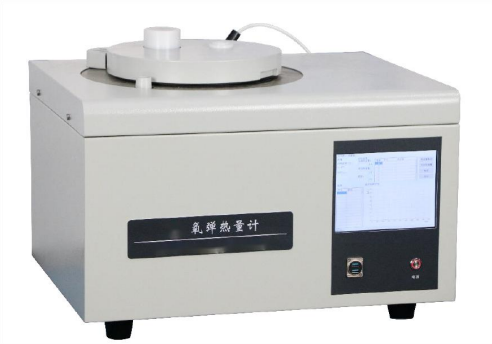
YK-0536 Coulometric Salt Content Analyzer

YK-2122C Coulometric Karl Fischer Titrator

# Lab Instruments

# Oxygen Bomb Calorimeter


XRY-1A
(Manual)
**Test range: （14400～14500）J/K**




XRY-1A+
(Semi-automatic)
**Test range: (14000～15000)J/K**


XRY-1C
(Automatic)
**Test range: (9000～11000)J/K**

# Model: XRY-1A

1. Power supply: AC (220V±10%), 50 Hz
2. Total power consumption: ≤150W
3. Heat capacity: 14000 J/K～14500 J/K
4. Resolution: 0.001 K
5. Measurement accuracy: ≤ 60J/g
6. Temperature measurement range: 10 ℃～35 ℃
7. Repeatability : ≤0.2% (Grade C)
8. Pressure endurance of oxygen bomb: 20 MPa
9. Ambient temperature: (15~28) ℃, the fluctuation is not more than 1 ℃ during one test
10. Data saved: 60 pieces
11. Relative humidity: ≤85%
12. Dimension:600mm×460mm×430mm

(Note: Pellet press machine is optional accessory)

# Model: XRY-1A+

1.Power supply: AC( 220±10%)V, 50 Hz

2.Total power consumption: ≤150W.

3.Heat capacity: (14000～15000) J/K

4.Resolution: 0.001 K

5.Repeatability error: ≤0.2%

6.Measuring range: (10～35)℃

7. Measurement accuracy: ≤90J/g(benzoic acid)

8. Pressure endurance of bomb: 20 MPa

9. Temperature measurement range: (15～28)℃,The temperature fluctuation during a measurement process shall not exceed 1 ℃

10. Relative humidity: ≤85%

11. Overall dimension: 600mm×480mm×460mm

(Note: Pellet press machine is optional)

# Model: XRY-1A+

1. Power supply： AC (220±10%)V, 50 Hz
2. Total power consumption： ≤0.2kW
3. Measuring temperature range： 5℃～35℃
4. Temperature resolution：0.0001℃
5. Repeatability error: ≤0.2%
6. Test time period：main period：about 12 min
7. Heat capacity： (9000～11000)J/K
8. Measuring error： no more than ±90J/g （Benzoic acid）
9. Accuracy:Better than GB/T213-2008 “ The determination method of coal calorific value“
10. Pressure endurance of oxygen bomb: 20 MPa
11. Suitable environment：

Ambient temp.：(15～28)℃, Continuous repeated testing, with an environmental temperature change of ≤ 2 ℃;

Relative humidity: ≤85%

12. Outline dimension：

650mm×450mm×450mm（L×W×H）

13. Net weight: 55kg

# Thanks