1 Insulation Oil Breakdown Voltage Tester

Product overview

Insulation oil breakdown voltage tester is our company's scientific research and technical personnel, play its own advantages, after many field tests and long-term unremitting efforts, carefully developed high accuracy, full digital industrial instruments. The machine is easy to operate and beautiful in appearance. Due to the use of fully automatic digital computer control, the measurement accuracy is high, anti-interference ability is strong, safe and reliable.

Three Configuration of Single Cup







PS-1001 PS-1001B PS-1001D

Technical indicators

Output voltage 0~80 kV(or 0-100kV) THVD <1% **Boosting rate** 0.5~5.0 kV/s Booster capacity 1.5 kVA Measurement accuracy ±2% Supply voltage AC 220 V&127V±10% Power frequency 50 Hz/60Hz Power 200 w Applicable temperature 0~45℃ Applicable humidity <85 % RH

Functions and characteristics

- The instrument is controlled by a large capacity single chip microcomputer, and the working is stable and reliable.
- There is a wide range watchdog circuit in the instrument to eliminate the malfunction phenomenon.
- Various operation choices can be adapted to different users'multiple choices.
- The instrument using special one-time glass cup molding technology, preventing the occurrence of oil spills and other interference phenomenon.
- The unique high voltage terminal sampling design of the instrument allows test values to directly enter the A/D converter, avoiding the errors caused by analog circuits, and making the testing results more accurate.
- The instrument has the over current, overvoltage, short circuit protection function. It has very strong anti-interference ability and good electromagnetic compatibility.
- Portable structure, easy to move, easy to use both indoor and outdoor.



- The instrument using special one-time glass cup molding technology, preventing the occurrence of oil spills and other interference phenomenon.
- Cup volume: 200 ml, 300 ml, 500 ml.
- Cup Electrode:Disk Electrode, Mushroom(Shaped)Electrode, Spherical Electrode
- 1: Mushroom(Shaped)Electrode
- 2: Disk Electrode
- 3: Spherical Electrode

PS-1003 (Three cups)

Functions and characteristics

1. The instrument is designed for three cups.

2. 5.4 inch LCD display, English menu man-machine dialogue is convenient, with temperature, humidity measurement and clock display function.

3. The operation is simple, and it automatically completes the operation of lifting, holding, stirring, static setting, calculation, data storage and printing and output.

4. It has the function of power loss and storage, and the test results can be saved automatically.

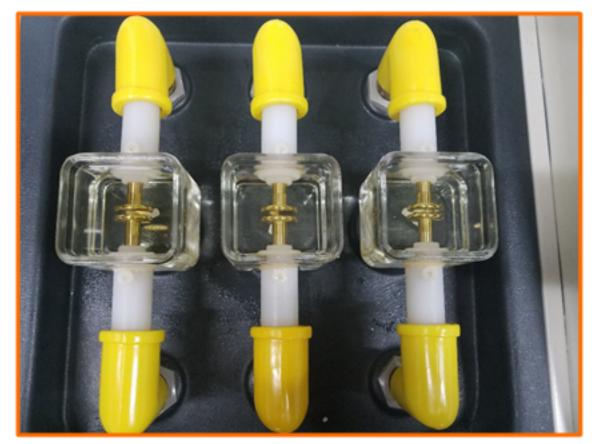
It has the function of overvoltage, over current, limit and grounding alarm to ensure the personal safety of the operator.

The unique waveform setting function eliminates the interference of the harmonic to the accurate measurement.

Controlled by dual CPU and PLC security instrument is stable and reliable.

8. The device can be equipped with 232, USB, Bluetooth port and wireless transmission function to facilitate data transmission with computers.





Technical indicators

Output voltage 0~80 kV(or 0-100kV)

THVD <1%

Boosting rate 0.5~5.0 kV/s

1.5 kVA Booster capacity

Measurement accuracy ±2%

AC 220 V&127V±10% Supply voltage

Power frequency 50 Hz/60Hz

Power

Applicable temperature

Applicable humidity

Width * height * depth

Net weight

200 w

0~45°C

<85 % RH

 $65 \times 41 \times 43$ (cm)

~ 39kg

PS-1006 (Six cups)

Technical indicators

Output voltage 0~80 kV(or 0-100kV)

THVD <1%

Boosting rate 0.5~5.0 kV/s

Booster capacity 1.5 kVA Measurement accuracy ±2%

Supply voltage AC 220 V&127V±10%

Power frequency 50 Hz/60Hz

200 w Power Applicable temperature 0~45°C Applicable humidity <85 % RH

Width * height * depth 77×68×75(cm)

Net weight ~ 70kg





Insulation Oil Dielectric Loss and Volumetric Resistivity Tester

Model: PS-2000A/2000B/2000C/2001A







PS-2000A/2000B/2000C

| Model | PS-2001A | PS 2000A | PS-2000B | PS-2000C |
|---------------------------------------|-----------------------------|---|-----------------------|-------------------|
| Testing Hems | Dielectric less resistivity | Diele c:ricless resistivity | Dielectric loss soley | Resistivity soley |
| | bot h | beth | 4 | 40 |
| Difference between PS-2001A, PS-2000A | | PS-2001A can automatically clean the oil cup without removing | | |
| | | the oil cup. | | |

Technical indicators

| Parameter | | Index | Parameter | | Index |
|----------------------|---------------------------|-------------------------------------|-------------------|--------------------|---|
| | Capacitance | 5pF~2€ 0pF | | Capacitance | 0.01pF |
| measure Range | Dielectric loss | 0.00001~100 | Resolution | Dielectric loss | 1 6 5 |
| | Resistivity | 2.5M Om~ 20 TOm | | Resistivity | 0.001M |
| | Capacitance | ●. 5%+1 PF | Control accuracy | | ±€.5℃ |
| Measure | Dielectric loss | ±(1%Reading+8.0001) | Tempera | iture range | ● ~ 125 ℃ |
| accuracy | n | 14.004 | ACY | oltage | AC 0~22 00V |
| | Resistivity | ±10%Reading | DC voltage | | DC 6~600V |
| Andrient temperature | | ● ~4 ● [†] C | Ambient huraidity | | <80%RH |
| Working power supply | | AC 220V/12 7V ±10% 50 Hz/60H z | Size | | 42 0 mm [‡] 3 80 m m [‡] 3 8 5mm |
| Power | | 100 W | Weight | | 2 5Kg |



Karl Fischer titrator (coulomb titration)

PS-KF106C



Standard:

IEC 60814、ASTM D1533、GB/T 7600-1987

Technical Parameter

Measuring range: 0μ g-200mg

(Typical value: $10 \mu g - 100 \mu g$)

Measurement accuracy: $3\mu g-1000 \mu g \leq \pm 3\mu g$

≥1000 µg ≤±0.2%

Electrolysis current: 0-400mA Resolving power: $0.1 \mu g$

Power: ≤35w

Applicable temperature: 10~40°C Applicable humidity: <85% RH Width xhigh x depth: 33 *26 * 22(cm)

Net weight: ∼ 8kg

PS-K F 106 A

Technical Parameter

Determination range: 0ug ~200mg

(typical value 10ug to 100ug)

Electrolysis current: 0-400mA Sensitivity threshold: 0.1ug

Accuracy: 5ugH₂O~1mgH₂O ±2ug,1mg H₂O above 0.3% (without sampling error, ambient humidity error)

Sample type: solid, liquid and gaseous

Display mode: 64K color high definition touch display

Data storage: 1000 test records

State indication: dynamic curve, text display

Stirring speed regulation:

sliding touch control panel speed regulation Date time: ten years' normal running time of power off

Applicable temperature: 5~35°C Applicable humidity: ≤85%



PS-K F 106



Automatic adding and discharging reagent

Standard: ISO 10337-1997、ASTM D4928。

ASTM D6304-2007 ASTM E1064-2008.

Titration:coulometric titration(Coulomb analysis)

Determination range: 0ug ~200mg (typical value 10ug to 100ug)

Electrolysis current: 0-400mA (Auto-Control)

Sensitivity threshold: 0.1ug

Accuracy: 10ug~1000ug±3ug 5ug

1mg H₂O above

Keyboard: Touch Screen + Physical Keyboard

On-line: data can be transmitted with balance and computer

Printer: micro thermal printer, paper width 56mm

Power: <40VA

Applicable temperature: 5~40°C

The use of environmental humidity: ≤85%

Weight: about 2.5kg **Volume:** 32×28×20(cm)



04 Flash point tester

PS-BS303A Closed cup flash point tester



Standard: ASTM D93 GB/T 261-2008

| Test method | Pensky-Martens | |
|-------------------------|----------------------------|--|
| Temperature Measurement | RT-400°C | |
| Measurement Accuracy | ≥110°C ±2°C ≤110°C ±1°C | |
| Repeatability | 0.5% | |
| Resolution | 0.1°C | |
| Supply Voltage | AC 220 V ±10%(Customizable | |
| Power frequency | 50 Hz /60Hz±2% | |
| Power | 200 w | |
| Applicable temperature | 10~40°C | |
| Applicable Humidity | <85 % RH | |
| Width * high * depth | 410mm*290mm*310mm | |

PS-KS403 Open cup flash point tester

Standard: ASTMD92 (GB3536-2008), GB267-88

Technical indicators

| Test method | Cleveland | |
|---------------------|------------------------------------|--|
| Display mode | High definition color touch screen | |
| Range | 40~400 °C | |
| Resolving power | 0.1℃ | |
| Accuracy | ±2°C | |
| Repeatability | ±3℃ | |
| Reproducibility | ≤5℃ | |
| Ambient temperature | 5~40°C | |
| Relative humidity | 10%~85% | |
| Power Supply | AC220V±10% 50Hz/60Hz±5% | |
| Power | 550W | |









Object to the second of the

Model: PS-2003/2006

- Three cup(six cup) design is suitable for testing the acid value of transformer oil and turbine oil;
- It automatically completes the operation of extractant addition, neutralization titration and endpoint discrimination, acid value calculation, data storage and printout;
- It is not necessary to prepare self extracting liquid and neutralizing liquid, etc. the average test time of oil sample is about 2 minutes;
- The resistive touch screen is bright and elegant with accurate input parameters and stable and reliable performance;
- Power off storage function, which can store the latest 100 test results;
- The automatic calibration function of the standard acid can eliminate the system error and guarantee the accuracy of the determination result;
- Large capacity and high efficiency carbon dioxide and water purification system ensures the stability of neutralization liquid concentration;
- The design of the chassis is simple and reasonable, the size is small and exquisite, the appearance is elegant and generous;
- Equipped with USB and wireless transmission interface, easy to connect with computer.



PS-2003(Three cup) **Technical indicators**



Standard: GB/T 264-83

PS-2006(Six cup)

Standard: GB/T6541、ASTM D971

| Name | Indicators | |
|-------------------------|------------------|--|
| Range of acid value | 0.001~1mg KOH/g | |
| Minimum resolution | 0.001 mg KOH/g | |
| Indicator repeatability | 0.002 mg KOH/g | |
| Supply voltage | AC 220V/127V±10% | |
| Power frequency | 50 Hz/60Hz ±2% | |
| Applicable temperature | 0~45℃ | |
| Applicable humidity | <85 % RH | |
| Width * height * depth | 420×190×340mm | |
| Weight | ~9kg | |

Automatic oil interface tension tester

Model: PS-ZL203

- The original fast response electromagnetic force balance sensor is used to improve the side precision and linearity;
- The calibration of the instrument is only a point to be calibrated, which solves the defect that the previous generation of sensors need multi point calibration, and eliminates the zeroing potentiometer and the full range potentiometer;
- The value of the equivalent tension and the current weight are displayed in real time;
- Integrated temperature detection circuit, automatic temperature compensation for the result of measurement;
- 240*128 dot matrix LCD display, no identification key, with screen protection function;
- A time marked history record with up to 255 data stored;
- Built in high speed thermosensitive printer, printing beautiful, fast, with offline printing function.

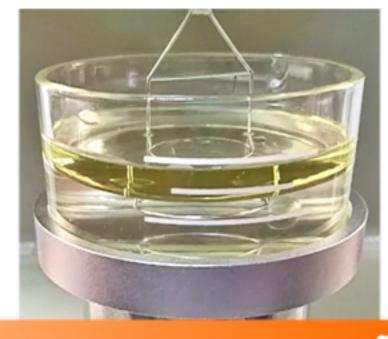
| Wellcome to use | Para.set |
|-----------------------|----------|
| | Weight |
| Automatic Interfacial | Water |
| Tension Tester | Test |
| 2010-07-09 14:09:20 | Data |

| Wellcome to use | Para.set | |
|-----------------------|----------|--|
| | Weight | |
| Automatic Interfacial | | |
| | Water | |
| Tension Tester | Took | |
| | Test | |
| 2010 07 00 11:00:20 | Data | |
| 2010-07-09 14:09:20 | | |
| | | |

| Wellcome to use | Para.set |
|-----------------------|----------|
| | Weight |
| Automatic Interfacial | Water |
| Tension Tester | Test |
| 2010-07-09 14:09:20 | Data |
| | |

| Heavy p:1.000 | Item |
|----------------------------|------|
| Light p:0.875 | Tab |
| PT wireR:0.29 | INC |
| PT ringR:9.85 Temp:28.7 | DEC |
| 2010-07-09 14:12:21 | Exit |
| | |

| Technical indicators | |
|------------------------|------------------------|
| Name | Indicators |
| measuring range | 0-200mN |
| Accuracy | 0.1% reading ±0.1 mN/m |
| sensitivity | 0.1 mN/m |
| Resolution | 0.1 mN/m |
| supply voltage | AC 220 V ±10% |
| Power frequency | 50 Hz ±2% |
| Power | ≤20W |
| Applicable temperature | 10~40℃ |
| Applicable humidity | <85 % RH |
| Width * high * depth | 200mm*330mm*300mm |
| Net weight | ~ 5kg |



Gas Chromatograph

Model: PS-8001 HS code: 9027201100

- Temperature control area: 6 channels
- Temperature range:

RT+5°C~400°C; incremental:1°C; Accuracy: ± 0.1 °C.

Temperature programmed order: 16 order.

Lift rate: 0.1~40°C/min.

 Control of gas path: choice of control mode of mechanical valve and control mode of electronic pressure flow.

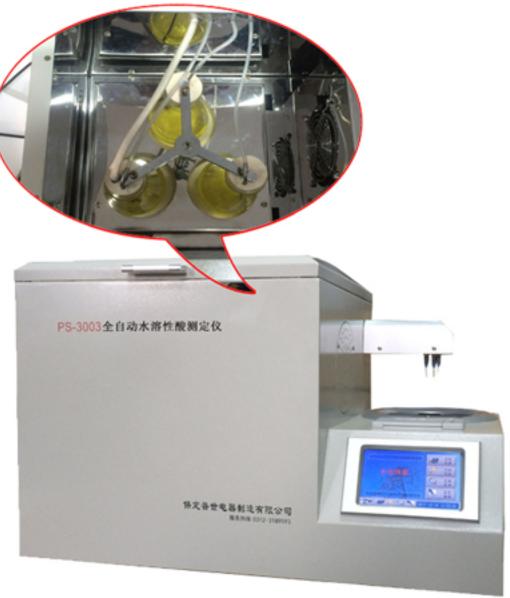
- External events: 4 channels.
- Type of injector: filling column, capillary, six way valve gas injection, automatic headspace injection, etc.





Observation Automatic water soluble acid tester







| ter setting | | |
|-------------------------------|--|--|
| Experimental selection | | |
| Cup 1 BROL Purple | | |
| Cup 2 BROL Purple | | |
| Cup 3 BROL Purple | | |
| Print setting Direct printing | | |
| ⇒ ENT Sack | | |
| | | |

| Technical indicators | | | |
|--------------------------------|--------------------|--|--|
| Name | parameter | | |
| Measuring range | 3.6-7.0PH | | |
| Measurement error | ≤± 0.1PH | | |
| Constant temperature precision | ±2℃ | | |
| resolution | 0.1PH | | |
| Power voltage | AC 220 V /127V±10% | | |
| Power frequency | 50 Hz/60Hz ±2% | | |
| power | ≤35w | | |
| Ambient temperature | 10 ~ 40°C | | |
| Relative humidity | < 85 % RH | | |
| Length * width * height | 590mm*350mm*390mm | | |
| Net weight | ~ 23kg | | |

- It can measure 1-3 samples at one time.
- Large screen LCD display, controlled by microprocessor, is easy to operate.
- Simple operation, automatic completion of heating, constant temperature, oscillation, sampling, testing, cleaning, printing and other operations;
- It has the advantages of high measurement accuracy, fast speed and stable and reliable measurement data.

09 Automatic Viscometer

Model: PS-YN1300 Standard: ASTMD7279, D445, D446/GB265

- Highly automation. No need operator always standby the instrument. After
 operator drop the sample to the instrument, it automatically test, calculate,
 and store the results. The operator can do the other task during the test. The
 instrument can test up to 200 samples per day.
- Clean and dry step is very convenient, no need remove the tub from the instrument, no need separate dry oven. The volume of the detergent is about 20 mL per sample. It can save more than 90% detergent than tradition method. The total clean and dry step is about 2 to 3 min.
- The volume the sample is very little, and the test efficiency is very high.
 The volume of the sample is about 0.3 to 0.5 mL. The full test steps is from 3 to 10m minutes according to the sample viscosity.
- Equipped with vacuum pump, no need compressed air.
- The Hollow glass and special thermal insulation method ensure the stable temperature.

| | The usages | | |
|---------------------------|--|--|--|
| Application field: The ne | ew lub oil and the used oil , including the the transparent, opaque and black liquids | | |
| Range of measurements | : 0.3-1000 mm2/s | | |
| Test efficiency: Up to 60 | samples / hour, (For VG320 oil, it's about 24 samples / hour) | | |
| The quantity of the Visco | meters: 4 "S"viscometers in one instruments, the size of the viscometer is custom - made | | |
| | Operation parameters | | |
| Operation method: 10" | touch screen. No need separated PC, No press button on the instrument. | | |
| Drop sample style: Man | ually | | |
| Sample volume: 0.2-0.6 | mL . | | |
| Detergent: Solvent oil | | | |
| The volume of the deterg | gent: about 20mL/sample | | |
| Clean style: Drop 20mL | detergent to the tube, it will take 2 to 3 minutes to complete the clean and dry step. | | |
| Dry style: Completed the | e dry step without remove the viscometer tub from the instrument. | | |
| | Temperature control and timing accuracy | | |
| Temperature scope | 20 − 100°C (If the test temperature below the 40°C, the freezer is needed) | | |
| Temperature accuracy | 0.01℃ | | |
| Timing accuracy | 0.01s | | |
| | Other parameters | | |
| Vacuum pressure | 1 Bar | | |
| Data storage | USB disc, or print | | |
| Data transport | Com port,(wireless is option) | | |
| Power supply | 220V / 50Hz | | |
| Power | Less than 2kW | | |
| Dimensions | 70cm, 32cm, 50cm | | |
| Weights | 30Kg | | |
| en in inches | Consumables | | |
| Viscometer tub | Calibration oil The tips of the pipette detergent | | |



Kinematic viscosity tester

Model: PS-YN1301 Standard: GB/T265-1988

- Using imported sensors and digital PID temperature control technology, the range of temperature control is wide and the temperature control precision is high.
- large screen color touch liquid crystal display, simple operation, convenient human-computer dialogue.
 room temperature to 130 degrees can be set at any temperature for temperature control.
- It can store the test results automatically, and can store 100 sets of data.
- No electricity calendar clock, start automatically display the current time.
- It has many advantages, such as high precision, fast speed, stable and reliable data.





Technical indicators

| Number of liquid bath holes | 4 | |
|-----------------------------|--------------------|--|
| Temperature range | RT-130°C | |
| Constant | ±0.1°C | |
| Measurement accuracy | ±0.01°C | |
| Supply voltage | AC 220 V/127V ±10% | |
| Power frequency | 50 Hz/60Hz ±2% | |
| Power | 1500W | |
| Applicable temperature | 10~40°C | |
| Applicable humidity | <85 % RH | |
| Width*height * depth | 390mm*260mm*240mm | |
| Net weight | ~ 18kg | |

Anti emulsifying tester

Model: PS-KR206 Standard: GB/T 7305-87 \ GB/T 7605-87

A color display with advanced micro computer technology and touch screen.

 With automatic lifting cylinder specimen mixing blade, automatic conversion, static, stirring time of automatic timing, automatic temperature control function of PID.

 The determination of the separation capacity of oil and synthetic liquid and water automatically.

• Determination of the separation capacity of turbine oil and water.

• It is an ideal instrument for measuring the anti emulsifying index in oil, chemical,

transportation, national defense and other industries.





2, Temperature control range: room temperature - 100°C

3. The precision of temperature control: ± 0.5 °C

4. Timing accuracy: $\pm 1S$

5. Stirring speed: 1500 turn / minute

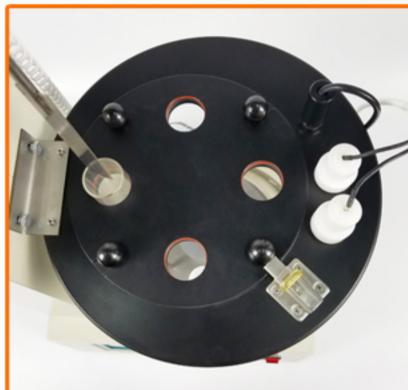
6. The number of sample holes: 4

7. Power supply: AC220V \pm 22 V 50Hz \pm 2.5 Hz

8. Power: < 1500W

9. Ambient temperature: 5°C - 35°C







Foam characteristic tester

Model: PS-PM201 Standard: GB/T12579 ASTM D892



Temperature control range: low temperature bath 24°C

High temperature bath 93.5℃

Temperature control accuracy: ±0.5℃ Display: High-resolution color touch screen

Power: 3300W

Air flow: Each flow meter is controlled at 94±5ml/min

Gas diffusion head diameter: Φ 25.4 \pm 0.02mm Maximum aperture \leq 80 μ m

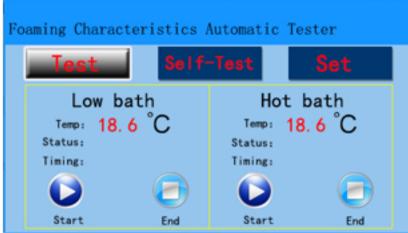
Diffusion head air permeability:

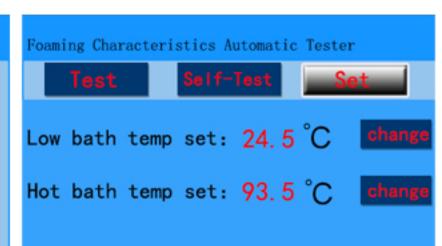
under 2.44Kpa (250mm water column) pressure:3000-6000ml/min

Power supply: AC 220V ±5% Frequency 50Hz ±5%

Ambient temperature: 10°C-35°C Environmental humidity: ≤85%

Weight: 39KG







Solidifying Point of Petroleum Products Tester

Model: PS-QN601

Temperature testing: Platinum Resistance

Accuracy: $\pm 1^{\circ}$ C Resolution: 0.1° C

Testing scope :+ 10° C ~ -70° C

Monitor: Blue LCD monitor (240 x 128)

Storage: 100 testing results

Clock display: Holding when power down

Cooling speed : temperature difference in 15 minutes $\geq 60^{\circ}$ C

Testing oil dosage: 20ml once

Requirement for cooling water: Pressure 4.9 X 101 - 4.9 X 105

Flux 1.5 liter/minute

Power: ≤250VA

Environment temperature: 10--35°C Environment humidity: ≤85%RH

Weight: About 25kg



Standard: GB510-83



13 Air generator

Model: PS-2009

Working conditions:

Supply voltage: 220V 50Hz

Ambient temperature: 15-40C° relative humidity ≤ 70%

No large amount of dust and corrosive gas pollution.

Air purity: oil free three level purification.

Output flow: 0-23/min

Output pressure: A output 0-0.4Mpa

B output 0-0.5Mpa

Noise: ≤42 Decibels 6)Power: 150W

7)Size: $465 \times 235 \times 360$ mm (L×W×H);

8)Weight: 22Kg





1 4 Hydrogen generator

Model: PS-300

1) Supply voltage: 220v 50Hz

2) Maximum power: 150W; 180W

3) Ambient temperature: 0-40°C Relative humidity<85%.

4) Environmental conditions: no large amount of dust and corrosive gases.

5) Purity of gas production: 99.999 % (Relative oxygen content)

6) Output flow: 0 -300 ml/min

7) Output pressure: 0.4Mpa

8) Size:370×180×360mm (L×W×H)

9) Weight: 12Kg;







Petroleum product density meter

Model: PS-MD201

1. Display device: color touch monitor

2、Temperature control range: 0-100℃

3、Control accuracy:± 0.05℃

4. Heating power: 1500W

5. Plus cooling medium: water or ethanol

6. Cold bath hole number: 2 hole

7. Power source: AC220V \pm 10%

8、Frequency: $50Hz \pm 2.5Hz$

Petroleum product density meter Temp Set Time Set

TEMP:
Start
Preset temp: C

Timer down:

Start/stop

Date & time:

Time adjust



Standard: GB/T1884-2000



16 Automatic oscillating instrument

Model: PS-ZD501



Temperature control range: RT-110°C
Temperature control method: Digital PID

Temperature accuracy: $\pm 0.1^{\circ}$ C

Shaker Frequency: 275±3 times/min

Shaker Amplitude: 35mm Capacity: Syringe 100ml X8

Flask 250ml X 4 (Optional)

Operation mode:

1. Chromatographic degassing oscillation:

Constant temperature 50°C;

Oscillation for 20 minutes:

Static for 10 minutes.

2. Water-soluble acid oscillation:

Constant temperature 75°C;

Oscillation for 5 minutes;

Static for 0 minutes;

3. Other physical oscillations:

Constant temperature 0 - 110°C arbitrarily set;

Oscillation is set at random for 0-99 minutes.

Static 0-99 minutes arbitrary settings;

Operating voltage: AC220V±20%;

4. Manual start oscillation and manual stop oscillation

Power supply frequency: 50 Hz±5%;
Maximum power consumption: 800VA;

Ambient temperature: 10-40°C; Environmental humidity: <85%;

Shape size: 500 X 350 X 385; Weight: 35Kg

20

17 Automatic Rust Tester

Model: PS-XS102

Monitor:color LCD display

Temperature control method : Digital PID control method Temperature testing : Pt100 Platinum Resistance

Temperature control accuracy : $\pm 0.2^{\circ}$ C

Stirring speed: $1000 \pm 50 \text{ rev/minute}$ Number of testing samples: 4

Clock displayed: Year, Month, Day, Hour, Minute

(not influenced when power down)

Power supply: AC 240V

Power frequency: 50Hz±2.5Hz

Power: 2500 W

Environment Temperature: 10°C--35°C Environment Humidity: ≤85%

Mainta 20 km

Weight: 30 kg

