

KN-6304 Coulometric Karl-Fischer Titration Tester

Applicable Standard

- **ASTM E1064 Standard Test Method for Water in Organic Liquids by Coulometric Karl Fischer Titration**
- **ASTM D4928 Standard Test Method for Water in Crude Oils by Coulometric Karl Fischer Titration**
- **ASTM D6304 Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration**
- **ASTM D1533 Standard Test Method for Water in Insulating Liquids by Coulometric Karl Fischer Titration**

Features

1. 7-inch TFT true color LCD touch screen
2. 32-bit microprocessor as the main control core, a new generation of intelligent operating system
3. Polarization detection technology, good stability, high precision, fast determination speed
4. The dual-channel isolated power supply separates the electrolytic electrode and the measuring electrode, and the instrument can automatically remove various interferences, which greatly improves the precision of the test results
5. Automatic calculate the results and PPM value, which can be widely used in different standards
6. Automatic data query function, it is convenient to find test records and statistical data, and the results can be printed at any time
7. Sample number and total amount of samples can be set, the report sheet is automatically calculated and generated, and the result can be printed at any time
8. Automatic display function of measuring electrode open circuit fault, short circuit fault, electrolyte over iodine, over water and other instrument faults.

Technical parameters

1. Screen resolution: 1024*768
2. Electrolytic current: 0~430mA, automatic control
3. Measuring range: 2 μ g~500mg, 0.1 μ g
4. Accuracy: 3 μ g~1000 μ g, $\pm$ 3 μ g (without injection error)
> 1mg, $\leq$ 0.5% (without injection error)
5. Printer: 58mm Micro thermal printer
6. Rated voltage: 220V $\pm$ 10%, 50Hz
7. Rated power: 35W
8. Ambient requirements: 5~40 $^{\circ}$ C, RH<80%

Package Information

1. Dimension: 400*260*250mm
2. Volume: 0.03m³
3. Weight: 5kg



KN-95 Dean Stark Distillation Water Content

Overview

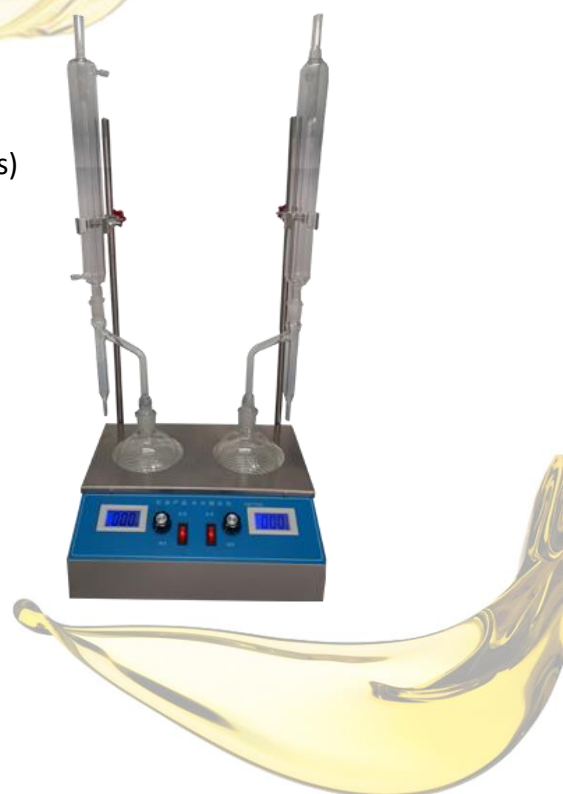
KN-95 Dean Stark Distillation Water Content conforms to the **ASTM D95 Standard Test Method for Water in Petroleum Products and Bituminous Materials by Distillation**. The apparatus is used for testing water in the range from 0 to 25 % volume in petroleum products, tars, and other bituminous materials by the distillation method.

Features

1. The instrument adopts solid state voltage regulator, stepless to change temperature, easy to accommodate temperature.
2. The instrument comprises single element.
3. Voltage regulator outputs without contact, sparkle and noise and it is stable.
4. Voltmeter is used to show the voltage changed by the solid state voltage regulator, convenient to direct-view.
5. Reasonable structure with beautiful shape and safe operation.

Technical parameters

1. Rated voltage: AC220V $\pm$ 10% 50Hz
2. Heating Power:0 ~ 650W (Continuously adjustable)
3. Temperature control mode: Solid-state voltage regulator (stepless)
4. Regulator display: AC Voltage Meter 0 ~ 300V
5. Ambient requirement: Temperature: 10 ~ 40°C; Humidity $\leq$ 85%



KN-203 Volumetric Karl Fischer Moisture Titrator

Overview

KN-203 Volumetric Karl Fischer Moisture Titrator is a new generation product. It is designed with new mechanical-electronic technology and human oriented idea. It is high precise and easy for using. Based on Karl Fischer volume method, it can measure the crystal water, absorbed water, free water in liquid, solid, or gas samples. It is widely used in petrochemical, pharmaceutical, agricultural, food fields.

Features

1. Polarization voltage of the double platinum poles estimates the end point and stop titration
2. The whole system is sealed to keep the bad from escape, it can automatically change the solvent and discharge the waste
3. Store the results automatically
4. Agitating PWM is stepless adjustable, select from the menu.
5. Extra-big TFT touch LCD display, touch LCD menu operation
6. On line direction, WINDOWS style, easy in using
7. Multi-parameter display (water content, percent, ppm content, Karl Fischer solvent consumption at the sometime), colorful titrating curves display
8. Display instrument status, sample volume of the controlled volume pump,time,3-way valve status, etc.

Technical parameters

1. Metering range: 0.001%~100% (H₂Omass)
2. Accuracy:0.001ml
3. System error:≤2%
4. End point resistance: 600~5000Ω continuous adjustable
5. Quick titrateposition:1000~9999 continuous adjustable
6. End point delay time:10~300second continuous adjustable



KN-4049 Water Spray for Lubricating Grease

Overview

KN-4049 Water Spray for Lubricating Grease conforms to **ASTM D4049 Standard Test Method for Determining the Resistance of Lubricating Grease to Water Spray**. This apparatus covers the ability of a grease to adhere to a metal surface when subjected to a water spray under prescribed laboratory conditions.

Features

1. PMMA chamber, convenient to observe, Precision pressure gauge displays spray pressure
2. Stainless steel plate conforms to standard requirement: 152.4×50.75×6.35mm
3. Stainless steel grinding tool conforms to standard requirement: 203.2×76.2×11.11mm
4. Stainless steel nozzle, $\Phi 3.18$ mm, Bypass-valve in front of the pressure gauge: 40psi±1psi
5. Microcomputer temperature controller, digital display, accurate to $\pm 0.2^{\circ}\text{C}$, PT100 sensor
6. Full enclosed compressor cooling Digital timer to control the spraying time
7. Magnetic pump circulating to cool the medium, insulation drivepipe on the circulating pipe

Technical parameters

1. Heating mode: Electrical heating pipe
2. Timing mode: Digital timer
3. Cooling mode: Compressor cooling
4. Temperature control mode: Digital PID temperature controller
5. Rated voltage: AC220V 50HZ, Working temperature: $38 \pm 0.2^{\circ}\text{C}$
6. Working pressure: 40psi±1psi
7. Water pressure control: By-pass valve
8. Power: 2.5KW
9. Spray mode: Precision nozzle



KN-4006A Water in Crude Oil Apparatus (Distillation Method)

Overview

KN-4006A knowledge of the water content of crude oil is important in the refining, purchase, sale, or transfer of crude oils. It conforms to the **ASTM D4006 Standard Test Method for Water in Crude Oil by Distillation**. This test method covers the determination of water in crude oil by distillation. This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

KN-4006: Single element

KN-4006A: Double elements

Features

1. Stepless solid-state voltage regulator, heating without fire, safety and reliability.
2. Heating jackets no flame, safe and reliable.
3. Voltmeter shows clearly, accurate temperature, good insulation properties.
4. Simple operation with elegant structure.

Technical parameters

1. Rated voltage: AC 220V $\pm$ 10% 50Hz
2. Power: 0~650W Continuously adjustable
3. Heating method: Heating jacket
4. Adjust the display: AC voltmeter 0~250V
5. Temperature control mode: Stepless voltage solid-state regulator
6. Distillation flask: 1000ml
7. Accepting bottles: 5ml, scale 0.05ml
8. Liebig condenser: 400mm
9. Temperature accuracy: $\pm 0.1^{\circ}\text{C}$
10. Ambient requirements: Temperature: 10~40 $^{\circ}\text{C}$; Humidity $\leq$ 85%



KN-1264 Water Washout Characteristics of Lubricating Grease

Overview

KN-1264 Water Washout Characteristics Of Lubricating Grease conforms to the **ASTM D1264 Standard Test Method for Determining the Water Washout Characteristics of Lubricating Greases**. This apparatus covers the evaluation of the resistance of a lubricating grease to washout by water from a bearing, when tested at 38 and 79°C (100 and 175°F) under the prescribed laboratory conditions. It is not to be considered the equivalent of service evaluation tests. Precision and bias was determined using grease ranging from NLGI 3 to 0 grades in the research report.

Features

1. Stainless steel bath with good bearing and SS spray circuit
2. Imported motor direct drive spindle, silence and stable
3. Digital tachometer, real time display revolving speed
4. Flowmeter, two groups of precision needle valve to control the flow rate

Technical parameters

1. Rated voltage: AC 220V $\pm$ 10% 50Hz or 110V $\pm$ 10% 60Hz
2. Sink heating power: 500W
3. Sink temperature range: Room temperature ~ 100°C, continuously adjustable
4. Control temperature accuracy: $\pm 1^{\circ}\text{C}$
5. Total power: 600 W
6. Spray water: $5 \pm 0.5\text{ml/s}$.
7. Bearing speed: $600 \pm 30\text{r/min}$
8. Ambient requirements: Temperature: 10 ~ 40°C ; Humidity $\leq$ 85%

