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|      | Self-Ignition Point Tester | SYD-706 | 1. Temperature range: Ambient to 800 °C  
2. Temperature control accuracy: Temperature difference ≤1 °C among the three points: center of bottom, center on side wall and top of flask.  
3. Conical flask: 200 ml  
4. Ambient temperature: Room temperature ~50 °C  
5. Relative humidity: <80%  
6. Power supply: AC (220±10%) V, 50Hz  
7. Maximum power consumption: 2000W  
8. Dimension: 540mm×310mm×270mm | Determine the lowest temperature of fire resistant oil and other special oils when burning in a flask. | DL/T706-99, IEC79-4: 95 |
|      | Automatic Interfacial Tension Tester | SYD-6541A | 1. Measurement range:  
(1) For insulating oil: 2~100 mN/m  
(2) For other petroleum products: 2~200 mN/m  
2. Sensitivity: 0.1 mN/m  
3. Accuracy: 0.1 mN/m  
4. Resolution: 0.1 mN/m  
5. Repeatability: 0.3%  
6. Ambient temperature: 10 °C~30 °C  
7. Relative humidity: 20%~75%  
8. Power supply: AC 220V±5%, 50 Hz  
9. Power: 20VA  
10. Dimension: 200mm×300mm×330mm  
11. Net weight: 6Kgs | Determine the interfacial tension between mineral oils and water under non-equilibrium condition (Liquid-Liquid interface), determine interfacial tension of various liquids (Liquid-Gas interface). | ASTM D971, GB/T6541 |
|      | Automatic Multifunctional Degassing Oscillation Tester | SYD-17623 | 1. Display: LCD  
2. Temperature range: Ambient ~99.9 °C  
3. Working environment: 10~40 °C, relative humidity ≤85%  
4. Temperature control accuracy: (Ambient~50) °C±0.2 °C; (50~80) °C±0.3 °C  
5. Oscillation frequency: (275±3) times/min  
6. Oscillation amplitude: 35mm  
7. Time control: Oscillation for 20min, stand still for 10min and temperature being constant at 50 °C  
Oscillation for 5min, stand still and give alarm to keep constant temperature at 70 °C  
Any time set for oscillation and stand still within (0~99) min  
Any temperature set within (0~99) °C  
8. Samples: 100ml, 8 pieces  
9. Maximum power consumption: 1000 VA  
Lubricating Oils Air Release Properties Tester SYD-0308
1. Temperature range of water bath: Room temperature−99.9℃
2. Temperature range of air bath: Room temperature−90℃
3. Temperature control accuracy of water bath: ±0.5℃
4. Temperature control accuracy of air bath: ±5℃
5. Power supply: AC220V±10% 50Hz
6. Maximum power consumption: 1000W
7. Volume of water bath: 10L
8. Net weight: 20kg
9. Dimension: 640mm×300mm×580mm

Determine the air release value of hydraulic oil, steam turbine oil and other petroleum products in the industries of chemicals, electricity, petroleum, etc.
ASTM D3427, SH/T0308

Insulating Oils Volumetric Resistivity Tester SYD-421
1. Measuring voltage: 500V, DC
2. Measuring range: 10^8 ~ 19.99×10^13 Ω•cm
3. Repeatability: >1012 Ω•cm: >25%; <1012 Ω•cm: >15%
4. Temperature control power: 300W
5. Temperature control range: 30~100℃
6. Temperature control accuracy: ±0.5℃
7. Measuring bias: ≤±10%
8. Electrode cup: 3 pieces
9. Ambient temperature: 0~40℃
10. Relative humidity: ≤85%
11. Power supply: AC 220V±10%, 50Hz±1Hz
12. Dimension: 440mm×350mm×320mm

Determine the Volume Resistivity of Insulating Oils.
DL/T421-91

Insulating Oils Breakdown Voltage Tester SYD-507
1. Output power: 2kVA
2. Measuring range: 0~75KV
3. Voltage increasing speed: 3 KV±10%/s
4. Distance between electrodes: 2.5 mm
5. Power supply: AC 220 V±10%, 50 Hz
6. Dimension: 330 mm×350 mm×360 mm

Insulating liquids-Determination of the breakdown voltage at power frequency
ASTM D1816, ASTM D877, GB/T 507

Thermostatic Water Bath HWY-2
1. Power supply: AC 220V (-5%~+10%), 50Hz
2. Volume of water bath: 330mm×390mm×300mm (L×W×H)
3. Applicable water yield: 32L
4. Heating device: Electric heater, power 1500W
5. Cooling device: New-type environment friendly compressor
6. Temperature control range: 5℃~90℃
7. Temperature control accuracy: ±0.1℃
8. Ambient temperature: ≤30℃
9. Relative humidity: ≤85%
10. Total consumption: Less 2300W
11. Outline dimension: 530mm×520mm×1000mm (L×W×H)
12. Net weight: 40kg

Supply the standard constant temperature water bath for factory, enterprise, construction organization, research laboratory and colleges & universities, etc.
2. Resolution: 0.001 K  
3. Measurement accuracy: ± 60 J/g  
4. Repeatability: ≤ 0.2% (Grade C)  
5. Pressure endurance of oxygen bomb: 20 MPa  
6. Temperature measurement range: 10 °C ~ 35 °C  
7. Ambient temperature: 20 ± 5 °C, the fluctuation is not more than 1 °C during one test  
8. Data saved: 31 pieces  
9. Relative humidity: ≤ 85%  
10. Power supply: AC 220V ± 5%, 50 Hz  
11. Dimension: 600mm × 460mm × 430mm  
12. Total power consumption: Less 150W  
(Note: Pellet press machine is optional accessory) | Determine calorific value of combustible materials such as petroleum products without water (gasoline, jet fuels, diesel oil and fuel oils, etc.), coal, coke and paraffin, etc. | ASTM D240, GB/T213-2008, GB/T384-1988 |
2. Measuring range: (10 ~ 35) °C  
3. Resolution: 0.001 K  
4. Measurement accuracy: ± 60 J/g  
5. Repeatability error: ≤ 0.2% (Grade C)  
6. Pressure endurance of bomb: 20 MPa  
7. Temperature measurement range: 10 °C ~ 28 °C  
8. Relative humidity: ≤ 85%  
9. Power supply: AC 220V ± 5%, 50 Hz  
10. Overall dimension: 600mm × 480mm × 460mm  
11. Total power consumption: Less 150W  
(Note: Pellet press machine is optional) | Determine calorific value of combustible materials such as petroleum products without water (gasoline, jet fuels, diesel oil and fuel oils, etc.), coal, coke and paraffin, etc. | ASTM D240, GB/T213-2008, GB/T384-1988 |
| Oxygen Bomb Calorimeter | XRY-1C | 1. Measuring temperature range: 5 °C ~ 40 °C  
2. Temperature resolution: 0.0001 °C  
3. RSD (Relative standard deviation): ≤ 0.1%  
4. Test period: ≤ 13 mins  
5. Measuring range: 5MJ/kg ~ 40MJ/kg  
6. Accuracy: Better than GB/T213-2008 The determination method of coal calorific value  
7. Pressure endurance of oxygen bomb: 20 MPa  
8. Relative humidity: ≤ 85%  
9. Power supply: AC 220V ± 10V, 50 Hz  
10. Total power consumption: ≤ 0.2 kW  
11. Outline dimension: 540mm × 420mm × 420mm (L × W × H)  
12. Net weight: 55kg | Determine calorific value of combustible materials such as petroleum products without water (gasoline, jet fuels, diesel oil and fuel oils, etc.), coal, coke and paraffin, etc. | ASTM D240, GB/T213-2008, GB/T384-1988 |
| Oxygen Filling Device | CY-1 | 1. Oxygen filling pressure: not less than 4 MPa;  
2. Endured pressure of oxygen filling pipe: not less than 4 MPa. | Fill oxygen to oxygen bomb for XRY series Oxygen Bomb Calorimeter |