Petrochemical Equipment

Your reliable partner for testing petrochemical products

SKY2001–II Automated Atmospheric Distillation Tester

The new generation of **SKY2001-II Automated Atmospheric Distillation Tester** is used for the determination quantitatively the boiling range characteristics of such products as light and middle distillates, automotive spark-ignition engine fuels with or without oxygenates, aviation gasolines, aviation turbine fuels, diesel fuels, naphthas, kerosines. SKY2001-II's accurate temperature measurement, precise volume detection and agile heater control guarantee excellent distillation behavior on important parameters such as IBP, distillation rate and FBP.

Features

- Conforms to: ASTM D86, ISO 3405, IP 123, GB/T 6536 and related specifications

- The iSKvator software presets the test methods, with only one button operation, the instrument can automatically complete the whole test process, including flask heating, cooling, distillate level following, distillation rate control, volume detection, temperature measurement, results judgment and data storage

- Ergonomic design with 12" color touch screen, easy to operate, rich and intuitive information, dynamic display distillation curve in real-time

- Dry point detection (optional)

- Built-in standard method or create customized method

- Intelligent temperature control to automatically optimize heating power for the best standardized distillation speed

- The liquid-free Peltier technology controls the cooling of the condenser tube and receiving chamber, which is efficient, environmentally and significantly reduces maintenance costs

- Stepper motor with high-precision photoelectric sensor to follow the level sensitively and measure the volume accurately

- Precision PT100 probe with embedded calibration data to measure temperature accurately

- Power on self-diagnosis

- Built-in fire extinguisher, extinguish fire manually or automatically in case of fire (N2 supply required from lab)

- The system will turn off if expected dry point cannot be observed to prevent the flask from heating even after it is dry

- Monitor the whole test process automatically, the system will alarm or stop the test if abnormal

- No less than 5000 test results can be stored automatically

- Data exportable to LIMS systems

Specifications	
Standards	ASTM D86, ISO 3405, IP 123, GB/T 6536
Test Range	Temperature Range: 0~400℃ Accuracy: ±0.1℃ (PT100 Probe)
Receiving Chamber	Temp. Range: 0~60℃ (0℃ can be reached when AT is below 15℃) Accuracy: ±0.1℃
Condenser Bath	Peltier cooling Temp. Range: 0~60 ℃ (0℃ can be reached when AT is below 25℃) Accuracy: ± 0.1℃
Heating System	Low mass/low voltage heater Unique heating optimization system for fully automatic initial heat settings and heating regulation
Safety Features	Monitor the whole test process automatically: • Alarm and stop the test automatically if IBP cannot be detected in specified time • Alarm and stop the test automatically if the flow rate exceeds 15mL/min or no change for a long time during test • Alarm and stop heating if the temperature of condenser tube or receiving chamber is higher than 70℃ • Built-in fire extinguisher, extinguish fire manually or automatically in case of fire (N2 supply required from lab) • The system will turn off if expected dry point cannot be observed.
IBP Detection	Infrared photoelectric detection
Dry Point Detection	Automatic dry point kit (optional)
Sample Volume Detection	Stepper motor with high-precision photoelectric sensor to follow the level sensitively Volume Range: 0mL to 100mL, 99 recovered volume measuring points Accuracy: 0.1mL
Pressure Correction	Automatic barometric correction
Data Storage	No less than 5000 results
User interface	12" color touch screen
I/O Port	USB*2, RS232*1, RJ-45*1
Data Export	LIMS or Printer
Main Power	2000W
Operating Conditions	5℃~35℃ 20~90%RH No air flow
Power Supply	AC220V±10%, 50/60Hz
Dimensions	525mm(W) × 590mm(D) ×585mm(H) (Vapour temperature sensor not included)
Weight	84KG