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TAG CLOSED CUP FLASH POINT TESTER AZA1280

The AZA1280 Tag Closed Cup Flash Point Tester is a high-performance, fully automated instrument designed for precise determination of flash points of volatile and low-viscosity liquids using the Tag Closed Cup (TCC) method.

Compliant with ASTM D56, the system is specifically engineered for low flash point applications, delivering accurate, repeatable, and safety-critical results for petroleum laboratories, aviation fuel testing facilities, chemical industries, and research environments.



Standards Compliance

- ASTM D56 (Tag Closed Cup Method)

Measurement Capability

- Flash Point Range: -40°C to 70°C
- Suitable for liquids with flash points below 93°C
- Designed for low viscosity and highly volatile samples

Applications

- Petroleum and fuel testing laboratories
- Aviation fuel quality control
- Chemical and solvent analysis
- Regulatory compliance testing
- Research & development laboratories



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System Features

Cooling & Temperature Control

- Dual compressor refrigeration system
- Rapid cooling to low temperatures (up to -50°C capability)
- Uniform and stable temperature distribution
- Fast pull-down time (~30 minutes from ambient to deep cooling range)

Heating Control

- Selectable heating rates:
 - $1^{\circ}\text{C}/\text{min}$
 - $3^{\circ}\text{C}/\text{min}$
- Precise temperature ramp control as per ASTM D56

Ignition System

- Automatic ion ring ignition
- Gas-based ignition (LPG / pipelined gas)
- Stable and repeatable flame application

Safety & Operational Advantages

- Fully enclosed system for safe testing
- Automated ignition minimizes operator risk
- Stable low-temperature control prevents measurement error
- Reduced operator dependency
- Reliable performance for volatile samples



UNIVERSE Functional & Advanced Control Specifications

Function	Specification
Cooling System	Dual compressor refrigeration
Cooling Range	Down to -50°C (typical capability)
Heating Control	Selectable $1^{\circ}\text{C}/\text{min}$ or $3^{\circ}\text{C}/\text{min}$
Ignition System	Automatic ion ring ignition
Gas Supply	LPG / piped gas (<10 kPa)
Temperature Measurement	PT100 (glass type, high accuracy)
Flash Detection	Automatic
User Interface	Touchscreen LCD
Data Handling	Internal storage + built-in printer
Sample Handling	Overflow and filling ports

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UNIVERSE Technical Specifications

Parameter	Specification
Model	AZA1280
Test Method	Tag Closed Cup (ASTM D56)
Temperature Range	-40°C to 70°C
Power Supply	AC 220 V \pm 10%, 50 Hz
Power Consumption	1500 W
Ignition Gas	LPG / piped gas (<10 kPa)
Temperature Sensor	PT100 (glass type)
Cooling Mode	Dual compressor refrigeration
Display	Touchscreen LCD
Printer	Built-in thermal printer
Ambient Conditions	10-40°C, \leq 85% RH
Dimensions	560 × 600 × 660 mm
Weight	45 kg