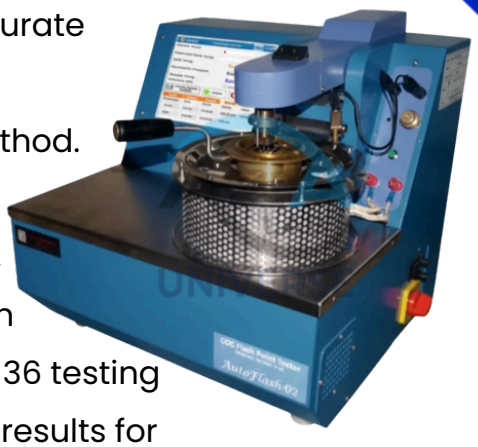
STAINLESS STEEL COC CLEVELAND OPEN CUP FLASH POINT ANALYZER AZA1293

The AZA Lab Stainless Steel Cleveland Open Cup Flash Point Analyzer AZA1293 is a precision-engineered laboratory instrument designed for accurate determination of flash point and fire point of flammable and combustible liquids using the Cleveland Open Cup (COC) method. Manufactured using high-grade stainless steel construction, the AZA1293 offers exceptional durability, corrosion resistance, thermal stability, and long operational life. Fully compliant with ASTM D92 and compatible with ISO 2592, IS 1448 (P:69), and IP 36 testing methods, the analyzer delivers highly reliable and repeatable results for petroleum products, lubricants, solvents, chemicals, and industrial fluids.



TEST METHODS

- ASTM D92A
- ISO 2592
- IS 1448 (P:69)
- IP 36

AUTOMATION & CONTROL FEATURES

The AZA1293 supports both manual and semi-automatic operation, providing flexibility for various laboratory workloads and testing procedures.

Automation features include:

- User-defined heating profiles
- Unknown search mode
- Rapid heating capability
- Automatic ignition sequencing
- Automatic flash and fire detection
- Automatic calibration before each test
- Integrated result storage

HEATING & IGNITION SYSTEM

The analyzer incorporates a precision coil heater system designed for ASTM-compliant heating performance.

System features include:

- 1000 W coil heater
- User-programmable heating rate (1–20 °C/min)
- ASTM-compliant heating control
- Stepper motor controlled igniter
- 3-step igniter brightness adjustment
- DC motor controlled swing arm assembly

The controlled heating system minimizes thermal gradients and improves test reproducibility.

SAFETY FEATURES

- Flame shielding system
- Insulated housing
- Automatic flame extinguishing cover
- Stable cup mounting
- Integrated flash and fire detection
- Controlled ignition movement
- High-temperature resistant construction
- Safe benchtop operation

MEASUREMENT & SENSOR SYSTEM

The AZA1293 incorporates high-precision sensors for stable and accurate flash point determination.

Measurement systems include:

- PT100 Class A sample temperature sensor
- PT100 Class A bath temperature sensor
- Ionization ring flash detection
- Thermal fire detection sensor
- Built-in atmospheric pressure sensor

The automatic calibration system performs self-calibration before every test cycle, eliminating the need for separate calibration devices.

STANDARD SUPPLY

- Main analyzer unit
- Stainless-steel test cup
- ASTM-compliant thermometer
- Ignition assembly
- Temperature sensors
- Swing arm mechanism
- Software package
- Power cable
- User manual

Technical Specifications

PARAMETER	SPECIFICATION
Model	AZA1293
Product Type	Stainless Steel Cleveland Open Cup Flash Point Analyzer
Test Methods	ASTM D92A, ISO 2592, IS 1448 (P:69), IP 36
Construction Material	Full Stainless Steel
Temperature Range	Ambient to 400 °C
Heating Rate	5–6 °C/min (ASTM-Compliant)
User Heating Range	1–20 °C/min
Heating System	1000 W Coil Heater @ 230 VAC
Cooling System	Centrifugal Blower, 56.5 CFM
Cooling Power	35 W @ 230 VAC
Ignition Type	Electric Igniter
Igniter Brightness	3-Step Adjustable
Ignition Control	Stepper Motor Controlled

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Technical Specifications

PARAMETER	SPECIFICATION
Arm Movement	DC Motor Controlled Swing Arm
Sample Temperature Sensor	PT100 Class A (SS Sheath), 0–400 °C
Bath Temperature Sensor	PT100 Class A (Disk Type), 0–500 °C
Flash Detection	Ionization Ring
Fire Detection	Thermal Sensor
Ambient Pressure Sensor	Built-In, 700–1100 hPa
Auto Calibration	Automatic Before Every Run
User Interface	Windows-Based Software
Result Storage	Included
Printer Support	Optional
Cup Diameter	50 mm
Safety Features	Flame Shield, Auto Cover, Insulated
Power Supply	230 V AC, 50/60 Hz
Approximate Dimensions	200 × 200 × 300 mm