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CLEVELAND OPEN-CUP FLASH & FIRE POINT TESTER AZA1292

The AZA Lab Cleveland Open-Cup Flash & Fire Point Tester AZA1292 is a precision-engineered analytical instrument designed for accurate determination of flash point and fire point of petroleum products in accordance with ASTM D92 and GB/T 3536-2008 standards. Designed for laboratory reliability, operational safety, and high repeatability, the AZA1292 provides accurate flash and fire point testing for lubricating oils, transformer oils, base oils, waxes, and other high-flash-point petroleum materials. The instrument combines intelligent microcomputer-based temperature control, explosion-proof electric furnace heating, automatic flash detection, and durable laboratory construction to ensure stable and standards-compliant performance in demanding testing environments.



TEST METHODS

- ASTM D92
- GB/T 3536-2008

SAFETY FEATURES

- Explosion-proof electric furnace heating
- No naked flame heating system
- Integrated flame extinguishing cover
- Automatic fire extinguishing shutter
- Stable RTD PT100 temperature sensing
- Controlled ignition sequencing
- Wind shield protection system
- Overheating prevention
- Safe high-temperature operation



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AUTOMATION FEATURES

- Automatic heating control
- Automatic ignition operation
- Automatic swing arm movement
- Stepper motor controlled igniter
- Integrated flash detector
- Integrated fire detector
- Automatic flame extinguishing response
- Adjustable ignition brightness levels

CONSTRUCTION FEATURES

- Stainless-steel workbench construction
- Compact benchtop footprint
- Durable laboratory-grade housing
- Corrosion-resistant structure
- Simplified maintenance design
- Long operational service life

CONNECTIVITY & DATA MANAGEMENT

The AZA1292 is designed for professional flash and fire point analysis of petroleum products according to internationally recognized ASTM D92 and GB/T 3536-2008 standards. The instrument is suitable for safety classification, quality control, refinery process monitoring, transportation safety evaluation, and regulatory compliance testing.



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Technical Specifications

PARAMETER	SPECIFICATION
Model	AZA1292
Product Type	Cleveland Open-Cup Flash & Fire Point Tester
Test Methods	ASTM D92, GB/T 3536-2008
Operation	Fully Automated
Flash Point Range	Ambient to 400 °C
Power Supply	AC 220 V \pm 10%, 50 Hz
Maximum Power Consumption	650 W
Heating System	1000 W Coil Heater @ 230 VAC
Heating Method	Explosion-Proof Electric Furnace
Heating Power	0-600 W Continuously Adjustable
Heating Rate	1-20 °C/min (Programmable)
Cooling System	Centrifugal Blower, 56.5 CFM
Cooling Power	35 W @ 230 VAC



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Technical Specifications

Parameter	Specification
Ignition System	Stepper Motor Controlled Electric Ignition
Ignition Brightness	7-Step Adjustable
Arm Movement	Automatic Swing Arm
Temperature Sensor	RTD PT100
Temperature Display	LCD with English Interface
Display Range	0–400 °C
Integrated Components	Sample Temp Sensor, Flash Detector, Fire Detector, Igniter
Flame Extinguisher	Auto Shutter Closure System
Ambient Temperature	–10 °C to 50 °C
Relative Humidity	≤85%
Dimensions (L × W × H)	340 × 320 × 450 mm

STANDARD SUPPLY

- Main analyzer unit
- Cleveland Open Cup assembly
- Electronic ignition system
- Temperature sensor
- Fire extinguishing assembly
- Bluetooth communication module
- Power cable
- User manual