



Acute

AutoFlash-92

AUTOMATED CLEVELAND OPEN CUP FLASH POINT ANALYZER



AutoFlash-92 is programmable fully automated micro controller based standalone Cleveland Open Cup Flash Point Analyzer conforming to standard ASTM D92, ISO 2592, IS 1448 (P:69) & IP 36.

These test method is applicable to all petroleum products (Primarily for viscous materials) with flash points above 79°C and below 400°C except fuel oils.

It is also used to determine fire point which is a temperature above the flash point, at which the test specimen will support combustion for minimum of 5 seconds.

Features:

- Standalone model with inbuilt PC & display.
- Accurate determination of Flash Point
- Easy operation: Select procedure, enter Expected Flash Point and click on start. Instrument follows the exact procedure and completion of the test cycle is signaled by beeps, with display & saving of results.
- Rapid heating procedure for high flash point till selected temperature below expected flash point
- Search programmes enables a quick determination of fully unknown samples
- Interchangeable gas or electric igniter source
- Automatic barometric pressure correction
- Interlocks for safe operation.

Ordering Information :

Standard Accessories:

AutoFlash-92 Cleveland Open Cup Flash point Analyzer with all standard accessories and 1 spare sample cup , 1 spare electric igniter

Optional accessories:

Certified Reference Material, Low Flash Point , 250ml
Certified Reference Material, High Flash Point , 250ml

Technical Specifications

Model : *AutoFlash-92*

Methods: ASTM D92A, ISO 2592, IS 1448 (P:69) & IP 36, User defined, Unknown search, Rapid heating

User Interface : Windows based user friendly S/W with methods & results storing Standalone with inbuilt PC & 8.4" touch screen display. RS 232, LAN and USB Ports for Printer & other peripherals.

SYSTEM :

Heating: Coil heater 1000 watt @ 230VAC
Heat rate as per method or defined by the user from 1 to 20 deg C/min

Cooling: Centrifugal Blower, 56.5 CFM, 35 watts@230 VAC

Ignition: DC motor controlled movement; S/W selectable Electric/gas igniter , S/W selectable dipping interval, Continuous Monitoring & Auto Ignition of Igniters

Arm Movement: Automatic DC motor controlled swing arm
Permanently fixed, sample temperature sensor, Flash detector, fire detector and Igniter for easy operation

Flame Extinguisher: Automatically extinguishes the flame covering the cup in case a fire is detected or after fire / flash point detection

MEASUREMENTS :

Auto Calibration: Prior to Every run, auto temperature calibration will be performed without the use of any calibration device.

Sample Temperature: PT 100 Class A, SS sheath, Measurement Range 0 to 400 deg C, Resolution 0.1 deg C

Bath Temperature: PT100 Class A, Disk Type, Measurement Range 0 to 600 deg C, Resolution 0.1 deg C

Flash Detection: Ionisation Ring.

Ambient Pressure: Built in pressure sensor, Range 500 to 1100 hpa

Fire Detection : Optical Sensor

SAFETY INTERLOCKS :

- Temperature sensors (bath/sample) is found defective.
- Flash Detector is found defective.
- Electric Igniter is blown off.
- Test Stop at above expected FP as selected or at 400 deg C
- Upon Detection of Fire by optical sensor, warning buzzer will beep and power will cut off and activate fire extinguisher
- Arm is not set in place.

OPERATING REQUIREMENTS :

Power Supply: 230Volts 50 Hz 1500 watt
Housing: W: 410 mm D: 420 mm H: 330mm Wt: 16 Kg
Ambient: Temp 10 to 35 deg C and Relative Humidity 80% at 35 deg C



Manufactured by :

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