



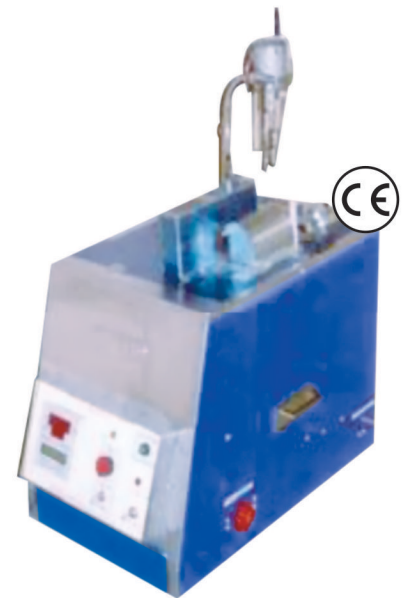
ICON INSTRUMENTS COMPANY

(Manufacturer of Laboratory Equipment)

IIC-167

AUTOMATIC FLASH POINT APPRATUS (Price on Request)

- IMPACT Automatic flash point and fire-point test method is a dynamic method and depends on definite rates of temperature increases to control the precision of the method.
- Its primary use is for viscous materials having a flash point below 79°C (175°F) except fuel oils, to define the hazards of flammable and combustible materials used in shipping and safety regulations. The temperature of the approximately 70 ml test specimen is increased rapidly at first and then at a slower constant rate as the flash point is approached. At specified intervals a test flame is passed across the cup, to measure the tendency of the test specimen to form a flammable mixture with air under controlled laboratory conditions.
- The flash point is the lowest liquid temperature at which application of the flame causes the vapors of the test specimen of the sample to ignite.
- To determine the fire-point, the test is continued until the application of the test flame causes the test specimen to ignite and sustain burning for a minimum of 5s
- It is an automatic flash and fire-point tester used to examine liquid as well as highly viscous samples in the same instrument without any additional equipment for temperature range up to 400°C. For substances with unknown flash points, the APPARATUS has a special search mode program.
- During the entire heating period, the test flame is moved across the sample at suitable intervals. The expected flash point of a specimen can there by be found in a time saving and economical manner.



Optional

The UNIT is equipped with

- Standard Cup : with handle, made of brass
- Temperature Probe Pt-100 : For sample temperature
- Battery operated (1.5 V pencil type cell) Gas igniter : For LPG gas ignition (Manually operated)
- Flame Detection Unit : For the detection of flash- and fire-points by UV sensor.
- Heating : By electrical SS Tubular Cartridge Heater of suitable rating to maintain ramp rate & easily replaceable. Flame Arrest Cover for extinguishing the fire in the cup
- DC Motors : Flame movement, LID Open/Close, Assembly of sensor RTD(Pt-100 thermocouple) Up/Down mechanism PC Interface Programmed Controller The Unit is incorporated with MODBUS RTU PC interface Microprocessor based PID Programmable controller user friendly features. (PC operated system through RS232 cable connection as option at extra cost)

IMPACT™ Automatic Flash and Fire point apparatus (By Cleveland Open Cup Method)

- Temp Range : Ambient to 400°C with RTD sensor as Thermocouple
- Flame-Detector : UV based flame-detector sensor & Controller
- DC motors : Flame movement, LID Open/Close, Assembly of sensors Up/Down mechanism. Microprocessor based Program process controller cum indicator with 3-wire RTD temperature sensor, free potential flame detector sensor as i/p and DC V SSR
- Controller : As o/p.
- Equipment Overall Size (LxWxH) : 24"x14"x31"
- Equipment Gross Weight : 21 Kg.
- Supply : 230 V, 1-ø, 50 Hz supply with proper earthing system for Controller.

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