Flash and Fire Point by Automated Cleveland Open Cup Flash Point Tester

Test Method

For flash and fire point of all petroleum products, except fuel oils and those having an open cup flash below 79°C (175°F).

Automatic Cleveland Open Cup Flash Point Tester

- Conforms to ASTM D92 and related specifications
- Simple automation routine for easy operation
- Flash point operation between ambient and 400°C
- Flash and Fire Point detection by Ionization Ring
- Gas or electric ignition
- Data Storage: 200 results
- Automatic gas cut-off at the end of the test
- Equipped with Emergency Safety Switch

The automated Cleveland Open Cup flash point tester accurately determines flash and fire point temperatures of viscous petroleum products including oils and bitumens over an extended temperature range. When examining highly viscous specimens, a preheating time and temperature are set in order to liquefy the sample for testing. The surface skin from bituminous samples can be removed with a skimmer. The flash/fire point tests are simply conducted by mounting the flash cup filled with sample into the test position and selecting a pre-programmed test method or the search mode to determine an approximate flash point. The test results are automatically corrected to standard pressure (101.3 kPa). Equipped with a differential Pt-100 RTD probe, the system is designed to duplicate the response time of a mercury-in-glass thermometer. Multiple sensors continually monitor instrument function, displaying an error message if a problem is detected. The performance of the ionization sensor which detects the flash and fire points is continuously monitored, and the user is notified upon the need of replacement. If a flash is not detected 20°C above the expected flash point or at 420°C, then the test is automatically aborted for safety. The system is easily interfaced with an external PC for operation and method updates. When performing a test, the system will display the stirring speed, temperature curve (also printed out), and current test status. The system alerts the user if the first application of the ignitor results in a flash or if no flash point is detected at the end of the test program. If a flash is not detected 30°C above the expected flash point or at 400°C, then the test is automatically aborted for safety.

Specifications

Conforms to the specifications of:

ASTM D92; IP 36, 403; ISO 2592; AFNOR T60-118; EN 22592; DIN 51376

Electrical Requirements:

115V 60Hz 1000W
230V 50Hz 1000W

Included Accessories

Ticket Printer
Test Cup
PT100 Probe
Detection Cable
Gas Tubing
RS232C Output
Data Acquisition Software

Dimensions lxwxh,in.(cm)

21x10.5x19.75 (53.5x26x50)

Net Weight:

44 lbs (20kg)

Ordering Information

Catalog No.	
K87400	Automatic Cleveland Open Cup Flash Point Tester 115V 60Hz
K87490	Automatic Cleveland Open Cup Flash Point Tester 230V 50Hz

Koehler INSTRUMENT COMPANY, INC.
1595 SYCAMORE AVENUE • BOHEMIA, NEW YORK 11716-1796
1-800-878-9070 (IN U.S. ONLY) • TEL: +1 631 589 3800 • FAX: +1 631 589 3815
www.koehlerinstrument.com • Email: sales@koehlerinstrument.com