Flash Point by
Automatic Abel Flash Point Tester

Koehler
INSTRUMENT COMPANY, INC.

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Specifications

Conforms to the specifications of:
    IP 170; ISO 13016; NF T 66-009; DIN 51755
Temperature Range:
    Ambient to 110°C; Subambient to -40°C with external
cooling Electrical Requirements:
    115V 50/60Hz, Single Phase
    230V 50/60Hz, Single Phase

Included Accessories

SEIKO ticket printer
Abel Cup
Abel Cover
Pt 100 Probe
Detection Cable
Flexible Stirrer Shaft and Motor
Insulated Tubing for Cryostat connection
Supervisor Software
RS232C Output for connection to PC (Not Included)

General Maintenance

Calibration Check Required at least once a year
Clean as frequently as possible to ensure optimum test conditions
Do not use Strong Solvents
In the case of intensive use, annual servicing is required

Dimensions lxwxh,in.(cm)
    10.25x21x19.75 (26x53.5x50)
Net Weight:
    44 lbs (20kg)

Shipping Information
Shipping Weight: 68 lbs (30.8kg)
Dimensions: 17x26x30

Test Method

For flash point determination of petroleum products and other liquids having flash points between -30°C and 110°C.

Automatic Abel Flash Point Tester

- Conforms to IP 170 and related specifications
- Simple automation routine for easy operation
- Data Storage 200 results
- Quick Access to calibration parameters
- Auto Diagnostic
- Optional low gas cartridge to wok in all types of environments
- Automatic gas cut-odd at the end of the test
- Optional cryostat required for samples having a FP below 40°C
- Automatic Electronic Control of the heating rate during testing
- Heating by Solid Block Element
- Cooling by External Cryostat

The automated Abel flash point tester is used primarily to test flammable and combustible materials for shipping and safety regulations. The flash tester provides an increased temperature range of operation as compared with other testers, allowing greater flexibility in testing samples according to the Abel test method. The unit provides a test range to 110°C and can be extended to -30°C by any appropriate external chiller. The flash point tests are simply conducted by mounting the flash cup filled with sample into the test position and selecting a pre- or user-programmed test method. Automation routines provide accurate test results. A quick search method is available to determine the flash point of unknown samples. The dual detection system (thermal and ionization) allows for testing all types of products. Gas flame ignition with safety cut-off device. Electric ignition also available. Test results are automatically corrected to standard pressure (101.3 kPa). The system is equipped with a differential Pt-100 RTD probe designed to duplicate the response time of a mercury-in-glass thermometer and with multiple sensors that continually monitor instrument function, displaying an error message if a problem is detected. Supervisor software is included.

Temperature range of the Flash Tester can be extended. Please

Ordering Information	
Catalog No.	
K87300	Automatic Abel Flash Point Tester, 115V 50/60Hz
K87390	Automatic Abel Flash Point Tester, 230V 50/60Hz
	Accessories
K33086	Refrigerated Circulator, 120V 60Hz (-40°C)
K33087	Refrigerated Circulator, 240V 50Hz (-40°C)
K87300-5	Flexible Stirrer Shaft and Coupling
K87300-9	Electric Ignitor
K87300-10	Tube for Propane gas 6 x 12mm (10m)