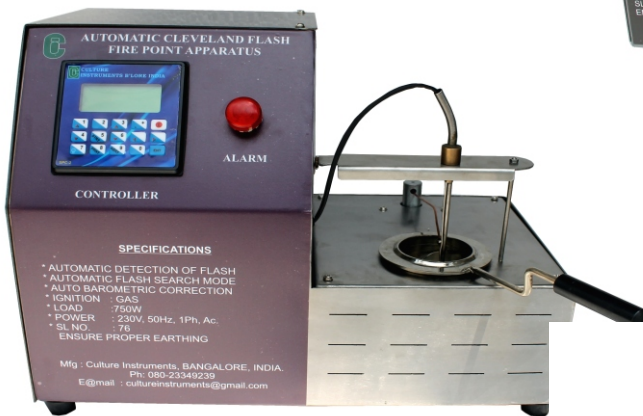




FLASH POINT

APPARATUS

INNOVATION WITH VALUE



Culture Instruments India LLP







FLASH POINT

ABEL FLASH POINT APPARATUS

COMPLIANCE

IP 170, IP33, IP113, BS2000 P-170, P-33, P113, ISO 1523,13736;
NF M 07-011; NF T 66-009

DESCRIPTION AND CONSTRUCTION

This apparatus is used for determination of flash points of samples, whose flash points are below + 49°C. The apparatus Made of Copper, and consists of a brass cup and cover fitted with shutter mechanism, Test Flame arrangement, Hand operated stirrer, Thermometer socket, Water jacket electrically heated.

SPECIFICATIONS - VOLTAGE VARIAC

11012-02

Bath	: Copper jacketed Water bath
Sample stirrer	: Manual
System Load	: 1.0 Kw
Operating temperature	: -5°C TO 70°C (low temperature by external circulation or ice mixtures- users scope)
Power Supply	: 230V, 50Hz A.C. 1 Phase
Voltage Variac Control	: Manually controlled heating rate



SPECIFICATIONS - DIGITAL

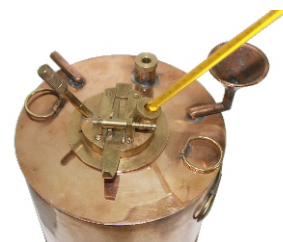
11012-03

System Load	: 1.0 Kw
Operating temperature	: -5°C TO 70°C (low temperature by external circulation or ice mixtures- users scope)
Power Supply	: 230V, 50Hz A.C. 1 Phase
Digital Module	: With 3 ½ digit LED display with PID based programmable / profilable controller for precise and unattended temp. control



ACCESSORIES / SPARES

11012-10	Copper Jacketed Vessel
11012-11	Energy Control system
11012-12	Voltage Variac Control System
11012-13	Digital Control System
11010-14	Reducing Socket cum Flame Regulator
11012-15	IP-75C Thermometer
11012-16	IP-74C Thermometer
11012-17	Test Cup
11012-18	Lid Assembly
11012-19	Heater Coil
11012-20	Refractory Heater Base
11012-22	NABL Calibration Certificate



PRE-INSTALLATION (ON SITE REQUISITES)

- * 5A Power Point, Single phase
- * LPG Cylinder with Regulator
- * D M Water
- * Match stick OR Lighter
- * Test Sample



FLASH POINT

SPECIFICATION - AUTOMATIC

11012-04

Bath Temp. Range	: -25°C to 60°C
Bath	: Dry block bath
Sample Volume	: 60ml
No. of samples	: 1 No.
Sample stirrer	: Motorised
Ignition	: Gas / Electric
Flash Detection	: Thermal/Ionisation
System Load	: 2.0 Kw
Testing temperature	: -20°C TO 50°C
Display	: 4 line Alphanumeric, Backlit LCD Screen
Power Supply	: 230V, 50Hz AC. 1Ph

ACCESSORIES / SPARES

11010-14	Reducing Socket cum Flame Regulator
11012-15	IP-75C Thermometer
11012-16	IP-74C Thermometer
11012-17	Test Cup
11012-18	Lid Assembly
26000	Printer
11012-22	NABL Calibration Certificate



PRE-INSTALLATION (ON SITE REQUISITES)

- * 5A Power Point, Single phase
- * LPG Cylinder with Regulator
- * D M Water
- * Match stick OR Lighter
- * Test Sample



FLASH POINT

CLEVELAND (OPEN CUP)

COMPLIANCE

IS:1448, ASTM D92, IP-36, IP-403, BS2000 P-403, Bs4689, DIN51 376, ISO 2592

DESCRIPTION AND CONSTRUCTION

This apparatus is used for determination of flash points of liquid samples, whose flash points are above 40°C to 350°C in open test conditions. Outer body made of mild steel powder coated, Complete with Sample cup made of brass, electrical Heating system, Control System, Flame regulator with reducing socket, thermometer holder.

ENERGY REGULATOR

11014-01

SPECIFICATIONS :

Operating temperature : 40°C TO 300°C
Power Supply : 230V, 50Hz A.C. 1 Phase
Flash Detection Accuracy : Manual
Load : 600W

VOLTAGE VARIAC

11014-02

SPECIFICATIONS :

Operating temperature : 40°C TO 300°C
Power Supply : 230V, 50Hz A.C. 1 Phase
Voltage Variac Control : Manually controlled heating rate
Flash Detection Accuracy : Manual
Load : 600W

DIGITAL

11014-03

SPECIFICATIONS :

Operating temperature : 40°C TO 300°C
Power Supply : 230V, 50Hz A.C. 1 Phase
Controller : Microprocessor PID Controller
Resolution : 0.1°C
Flash Detection Accuracy : Manual
Load : 600W

ACCESSORIES & SPARES

11010-11 Energy Regulator
11010-12 Voltage Variac
11010-13 Digital Controller
11010-14 Reducing Socket cum Flame Regulator
11010-15 IP-28C Thermometer
11010-16 Test Cup
11010-17 Temperature Sensor (digital only)
11010-18 Thermometer Holder
11010-19 Heating Coil
11010-25 Calibration Certificate





FLASH POINT

AUTOMATIC MODEL

11010-04

For accurate and manual error free determination of flash points of fuels, lubricating oils, and homogenous liquids as per ASTM D92. Test parameters are set via keypad, with digital display of set and process temperature.

STANDARD FEATURES

- * Automatic Flash point detection
- * Automatic Barometric pressure correction
- * Automatic flash point search mode for unknown samples
- * User set-able heating and flashing profile
- * Automatic heating profile setting depending on initial sample temp. and expected flash point.
- * Automatic cutoff at 30°C beyond expected flash point or at max. temp. limit set by the user.
- * 16 x 4 Line Back Lit Alpha numeric display
- * In-bult Numerical Key pad for settings & data entry
- * Audio visual indication of end of test and Alarms
- * Over temperature safety cutoff and alarm.
- * Last reading stored until report is printed or next test is initiated.
- * Serial Printer interface for Automatic printing of test report at a press of a button.
- * Ensures minimum power consumption by design thereby reducing operation cost.
- * Electrical ignition instead of gas (Optional)

SPECIFICATIONS :

Resolution	: 0.1°C
Controller Accuracy	: 0.5°C
Flash Detection Accuracy	: ± 2°C
Load	: 750w

ACCESSORIES / SPARES

11010-14	Reducing Socket cum Flame Regulator
11010-15	IP-28C Thermometer
11010-16	Test Cup
11010-17	Temperature Sensor
11010-18	Thermometer Holder
11010-19	Heating Coil
11010-20	Gas Ignition System
11010-21	Electrical Ignition System (automatic model only)
11010-25	Calibration Certificate

PRE-INSTALLATION (ON SITE REQUISITES)

- * 5A Power Point, Single phase
- * LPG Cylinder with Regulator
- * Match stick OR Lighter
- * Test Sample





FLASH POINT

PENSKY MARTEIN (CLOSED CUP)

COMPLIANCE

IS:1448, ASTM D93, D3934, D3941, D3278, D3828, IP 304, 404, BS3900, 6664, ISO-1516,1523,2719, DIN51 758.

DESCRIPTION AND CONSTRUCTION

This apparatus is used for determination of flash points of liquid samples, whose flash points are above 45°C to 350°C in closed test conditions. Outer body made of mild steel powder coated, Complete with cup made of brass, lid assembly and LPG regulator with Y-cock. There are four variants.

AUTOMATIC MODEL

For accurate and manual error free determination of flash points of fuels, lubricating oils, and homogenous liquids as per ASTM D93, method A & B. Test parameters are set via keypad, with digital display of set and process temperature.

MODELS

- 11011-01 Basic with Energy regulator control.
- 11011-02 Basic with Voltage Variac control.
- 11011-03 Semi-automatic with Gas ignition
- 11011-04 Automatic with Electrical/Gas ignition
- 11011-05 Auto-Prime with touch screen, with Electrical/Gas ignition





FLASH POINT

STANDARD FEATURES FOR AUTOMATIC

- * Automatic Flash point detection
- * Automatic Barometric pressure correction
- * Automatic flash point search mode for unknown samples.
- * User set-able heating and flashing profile
- * Automatic or user set-able stirrer speed setting and control
- * Automatic heating profile setting depending on initial sample temperature and expected flash point.
- * 16 x 4 Line Back Lit Alpha numeric display
- * Automatic cutoff at 30°C beyond expected flash point or at max. temperature limit set by the user.
- * 2 Preset test Modes as per ASTM Method A & B
- * In-bulit Numeric Key pad for settings
- * Audio visual indication of end of test and Alarms
- * Over temperature safety cutoff and alarm.
- * Last reading stored until report is printed or next test is initiated.
- * Serial Printer interface for Automatic printing of test report at a press of a button.
- * Ensures minimum power consumption by design thereby reducing operation cost.
- * Electrical ignition instead of gas (Optional)

ADDITIONAL FEATURES FOR AUTO-PRIME

- * 5" Colour Touch Screen Graphic User Interface
- * LAN Enabled system
- * Internal Storage of Reports and Results
- * Pre-loaded recipes for testing as per IP, ASTM, ISO - methods a, b & c
- * Auto-diagnostic feature for self testing and fault detection
- * In-built memory to store up to 10,000 Reports
- * Over-head cooling arrangement.
- * Multi-point temperature Calibration facility for better linearity

SEMI AUTOMATIC MODEL

11011-03

- * This system offers almost all the features of an automated system like digital temperature control μ based with single point ramping.
- * Ramping Rate: 20°C to 100°C/Hr.
- * Variable speed stirrer to comply with both method A & B.
- * Automatic exposure of test sample to flame at a press of a button.
- * Temperature Range: 45 to 400°C
- * Stirrer speed adjustable from 30 to 250
- * Digital RPM Indicator (Optional)
- * Load 750 W
- * Resolution : 0.1°C
- * Controller Accuracy : 0.5°C
- * Flash Detection : MANUAL
- * Operation on 230V 50Hz, single phase.
(Optional 110V 50 Hz, single phase.)



11011-03



FLASH POINT

VOLTAGE VARIAC MODEL

11011-02

Consisting of A brass test cup with lid assembly, motorised stirrer of fixed rpm and a heating system with voltage variac control. Temp. to be monitored by a glass thermometer

- * Temperature Range: 45°C to 400°C
- * Load 550 W
- * Operation on 230V, 50 Hz, single Phase



ENERGY REGULATOR MODEL

11011-01

Consisting of A brass test cup with lid assembly, manual stirrer and a heating system with energy regulator control. Temp. to be monitored by a glass thermometer

- * Temperature Range: 45 to 400°C
- * Load 550 W
- * Operation on 230V, 50 Hz, single Phase

ACCESSORIES / SPARES

- 11011-11 Energy Regulator
- 11011-12 Voltage Variac
- 11011-13 Digital Controller
- 11011-14 Reducing socket cum Flame regulator
- 11011-15 IP-15C Thermometer
- 11011-16 IP-16C Thermometer
- 11011-16 Brass Test cup
- 11011-17 Lid with Shutter
- 11011-18 Open Cup Lid
- 11011-19 Motorized Stirrer (02/03 Only)
- 11011-20 Heating Coil
- 11011-21 Gas Tubing
- 11011-22 Temperature Sensor
- xxxx-xx Portable digital barometer
- 11011-23 Spare electrical ignition coil. (Automatic Models)
- 11011-24 Lid with shutter for electrical ignition. (Automatic Models)
- 11011-25 Spare flash detector (Automatic Models)
- 11011-26 Fire extinguisher attachment (Prime Model only)
- 11011-27 Calibration Certification
- 11011-28 Flame Relighting Arrangement (Prime Model only)

11011-02



11011-01

PRE-INSTALLATION ON-SITE REQUISITES

- * 5A Power Point, Single phase
- * Standard Test Sample
- * LPG Cylinder With Regulator (11011-03 / 02 / 01)
- * Match Box or Lighter (11011-03 / 02 / 01)
- *



Dealers / Distributors / Channel Partner



Culture Instruments India LLP



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