LABTRON

KINEMATICS VISCOMETER

Kinematics Viscometer

Kinematics Viscometer LKV-A11

Labtron LKV-A11 Kinematic Viscometer is used for precise measurement with capillary viscometers. It is made according to “Test Methods for Kinematic Viscosity of Petroleum Products and Calculation of Dynamic Viscosity” as per ASTM D445.

Features

- LCD temperature controller
- High Temperature control accuracy which can reach ±0.1^{0}C
- Uniform water bath temperature
- Electric stirring device
- Convenient to operate and gives fast response

Application

It is used in the fields of petroleum & its products industries, research and development department.

Specification

Model No.	LKV-A11
Ambient temperature	-10°C ~+35°C
Relative humidity	≤85%
Capillary viscometer	11pieces
Stirring motor	6W, 1200rpm
Temperature controlling accuracy	±0.1°C
Constant temperature bath	20L; two layers water bath
Temperature sensor	Industrial platinum resistance; Pt100
Inner capillary viscometer diameters	0.4, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5 and 4.0mm respectively (Inner diameters of 5.0 and 6.0mm are optional)
Heating power	Two grades, 1000W+650W
Dimension	610*560*760mm; 440*440*480mm
Total power consumption	≤1800W
Power supply	AC 220V±10%, 50Hz±5%

Kinematics Viscometer LKV-A12

Labtron LKV-A12 is designed and made as per ASTMD445 “Standard Test Method for Kinematic Viscosity of Transparent and Opaque Liquids”. Its temperature accuracy can reach up to ±0.01°C.

Kinematics Viscometer

Features

- Heat preservation cover (double shell)
- Digital display
- Hard glass bath
- Convenient to use desktop design
- Temperature control accuracy can reach ±0.01^{0}C
- Electric stirrer to ensure the uniformity of bath temperature

Application

It is used in the fields of Petroleum & its Products Industries, Research and development department.

Specification

Model No.	LKV-A12
Ambient temperature	-10°C ~+35°C
Relative humidity	<85%
Capillary viscometer	11 pieces
Stirring motor	6W, 1200rpm
Temperature range	Ambient temperature~100°C
Temperature controlling accuracy	±0.01°C
Constant temperature water bath	20L, two layer bath
Timing device	0.1s ~999.9s
Timing resolution	0.1s
Inner diameters of capillary viscometer	0.4, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5 and 4.0mm respectively
Heating power	1000W
Temperature controlling	650W
Dimension	610*560*760mm; 440*440*480mm
Power supply	AC220±10%, 50Hz

Kinematics Viscometer LKV-A13

Our LKV-A13 is a double layered, desktop structured Kinematic Viscometer which is designed as per ASTM D2171 / D2171M - 10 “Asphalt Kinematic Viscosity Test (Capillary Viscometer Methods”.

Kinematics Viscometer

Features

- Maximum heating temperature can reach upto135^{0}C (or 180^{0}C)
- High temperature resistant glass bath
- Electric stirring motor
- High precision digital temperature controller

Application

It is used in the fields of petroleum & its products industries, research and development department.

Specification

Model No.	LKV-A13
Ambient temperature	-10°C ~+35°C
Relative humidity	＜85%
Capillary viscometer	7 pieces of Cannon-Fenske reserve-flow capillary viscometer tubes in a group
Stirring motor	6W, 1200rpm
Sample quantity	3 piece at the same time
Bath temperature	Ambient temperature~180.0℃
Measurement range	100~150°C or 150~200°C
Bath cubage	23L
Temperature controlling accuracy	±0.1°C
Capillary viscometer diameters	1.02, 1.26, 1.48, 1.88, 2.20, 3.10 and 4.00mm
Mercury thermometer scale division	0.1°C
Heating power	Two grades; 1000W for auxiliary heating and 600W for temperature controlling
Total power consumption	≤1800W
Power supply	AC 220V±10%, 50Hz

Low Temperature Kinematic Viscosity Tester LKV-A14

Labtron LKV-A14 Kinematic Viscometer is deliberately designed with advanced compressor refrigeration technology. It is highly efficient and made as per ASTM D445 “Test Methods for Kinematic Viscosity of Petroleum Products and Calculation of Dynamic Viscosity”.

Kinematics Viscometer

Features

- Minimal temperature is -70^{0}C
- Lighting device for easy visibility of indication
- It can do determination for two samples at a time
- High work efficiency
- Floor type machine

Application

It is used in the fields of petroleum & its products industries, research and development department.

Specification

Model No.	LKV-A14
Ambient temperature	≤30°C
Relative humidity	≤85%
Capillary viscometer	13pieces
Stirring motor	6W, 1200rpm
Temperature range	Ambient temperature ~70°C
Temperature controlling accuracy	±0.1°C
Illumination	6W/220V fluorescent lamp
Constant temperature bath	5.8L with stainless steel inner tank
Inner capillary viscometer diameters	0.4, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 5.0 and 6.0mm
Dimension	640*570*107mm
Total power consumption	≤1700W
Power supply	AC 220V±10%, 50Hz

Kinematic Viscometer LKV-A15

Labtron LKV-A15 is fully automated kinematic viscometer, designed with single chip microcomputer and Industrial Platinum Temperature Sensor. It is accorded as per ASTM D445 “Test Methods for Kinematic Viscosity of Petroleum Products and Calculation of Dynamic Viscosity”.

Kinematics Viscometer

Features

- Industrial Platinum Temperature Sensor
- Fully automatic
- Robotically saves the parameters of capillary tube diameter and coefficient
- Colored LCD technology

Application

It is used in the fields of petroleum & its products industries, research and development department.

Specification

Model No.	LKV-A15
Ambient temperature	-10°C~ 35°C
Relative humidity	≤85%
Capillary viscometer	11pieces
Stirring motor	6W, 1200rpm
Temperature range	Ambient Temperature~100.0°C
Temperature controlling accuracy	±0.01°C
Timing range	0.0s~9999.9s
Timing accuracy	≤ ±0.05% in 60min
Bath cubage	20L
Sample quantity	4 piece at the same time
Inner capillary viscometer diameters	0.4, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5, and 4.0mm
Dimension	640*540*850mm
Heating power	1700W
Power supply	AC 220 V±10%, 50Hz
Total power consumption	≤1800W

Kinematic Viscometer LKV-A16

Labtron LKV-A16 is a fully automated Kinematic Viscometer which controls the viscosity calculation and its method. It is made as per ASTM D445 “Standard Test Method for Kinematic Viscosity and Calculation Method for Dynamic Viscosity of Petroleum Products” National standard.

Kinematics Viscometer

Features

- Automatically controls the timing, viscosity calculation, capillary viscometer washing and drying, prints the report
- Automatic self-diagnostic
- Total test controlled by microprocessor
- Highly efficient

Application

It is used in the fields of petroleum & its products industries, research and development department.

Specification

Model No.	LKV-A16
Ambient temperature	0~40ºC
Relative humidity	20~90%, RH while 40ºC
Temperature accuracy	±0.1ºC
Timing range	0.0s~9999.9s
Timing accuracy	±0.1s
Barometric	96~103kPa
Total power consumption	2000W
Power supply	220V±10%,50Hz

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