BitUVisc viscometer

Automatic viscometry systems for bitumens and similar products

The BitUVisc viscometer

OmniTek introduces the newest member to the U-VIsc family of fully automatic viscometer systems. Specifically developed to cover sample types which pose great challenges to automatic sampling, measurement and cleaning because of their high pour point and viscosity.

The BitUVisc system provides users with completely automatic heating, sampling, measurement and cleaning of high viscosity samples such as bitumen and vacuum residue

Flexible and reliable

The instrument was designed to be versatile and flexible, yet easy to use to cover the hardest applications. Different models are available with 1 or 2 tubes, allowing for the analysis of a wide range of viscosities and sample types.

The tubes are based on the well-known and proven Ubbelohde design. Using specially designed thermal sensors, these tubes allow the detection of fully opaque fluids without any problems or limitations and eliminate the need to use the reverse flow tubes common in bitumen testing. The standard configuration offers viscosity measurement up to 165 $^{\circ}$ C, and sample preheating up to 200 $^{\circ}$ C.

Sophisticated temperature control ensures that measurements are carried out well within the required temperature stability. The system features an innovative single position autosampler which provides integrated heating of the sample up to 200⁹ and uses preheated solvent to effectively clean the viscometer tube. The BitUVisc is fitted with a dual solvent cleaning system and can use both vacuum and pressure to raise the sample up into the tubes, allowing the analysis of volatile samples.

The instrument can be controlled through an advanced PC application which not only logs the test results but also monitors the bath temperature during the test to ensure the validity of the result. It allows the operator to specify optimized and fully customizable test methods for each individual sample with the click of a mouse button.

Finally an instrument that eliminates the need for the tedious, labour intensive manual loading, measurement and cleaning of high viscosity samples.

Features

- Compliant with requirements for ASTM D2170, D445 and related specifications
 Fully automatic heating, sampling, measurement and cleaning
 Easy tube exchange. Back to work in minutes without the need for a service tech
 Advanced thermal sensors
 - eliminate the need for reverse flow tubes

- Very easy to use and maintain
- Especially developed for high
 temperature, high viscosity applications
- No external vacuum required
- Sampling using vacuum or
 pressure allows analysis of volatile samples

 Use of preheated solvent to maximize cleaning efficiency

Advanced PC software for
 storage, reporting and calculations

• Chemically resistant to allow for all common solvents

• Can be used from room temperature up to 165°C



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OMNITEK

BitUVisc

BitUVis

ASTM D2170 / D445

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The BitUVisc is supplied with:

20-fold viscometer tubes

Bath oil

Cooling coil

Calibration standards

Advanced PC software

All parts required for standard operation

Options and accessories

External chiller Pedestal base Digital thermometer



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Specifications

Applicable standards	ASTM D2170, D445 and related standards for kinematic viscosity	
Measuring range	up to 100,000 mm²/s and / or up to 165 °C	
Temperature range	20 - 165º C*	
Temperature stability	±0.01ºC @ 40º C, ±0.015 @ 100º C and higher	
Sample volume	15 ml	
Solvent consumption	20-30 ml per cycle, sample dependent	
Viscometer type	Modified Ubbelohde	
Sensor type	Thermal	
PC Control	Up to 4 instruments controlled with 1 PC	

* For temperatures around ambient, an external cooling circulator is required

Available models



	BitUVisc 110	BitUVisc 120
Nr. of baths	1	1
Tubes	1	2
Dimensions	38 x б2 x 78 ст.	
Weight	54 kg.	

Your authorized distributor is :