ANALYTICAL INSTRUMENTATION FOCUS ON VISCOSITY MEASUREMENT



The Omnitek U-Visc combines several unique features, making it the instrument of choice in many applications, ranging from QC to R&D to used oil analysis. While offering full compliance with ASTM D445/D446, the specially designed viscometer tubes cover a 100-fold range.

The capillary tubes are based on the well-known and proven Ubbelohde design. Available with single or dual solvent cleaning, the instrument measures kinematic viscosity in lubricants between 0.15 and 25,000 mm<sup>2</sup>/s.

Designed to be versatile and flexible, yet easy to use. Different models are available ranging from 1 bath with 1 or 2 tubes, up to 2 baths with 1 or 2 tubes per bath, where each bath works independently. Each bath features a sampling tray with 16 samples per tube, allowing completely unattended operation at different temperatures. Depending on the viscosity of the sample, the instrument can process up to 10 samples per tube per hour, leading to a maximum capacity of up to 40 samples per hour, satisfying even the needs of high volume labs running several hundred samples per day. An optional sample preheater allows processing samples such as waxes and heavy fuel oils as well.

More information online: ilmt.co/PL/PVGJ

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## **BitUVisc viscometer**



**Omnitek** introduces a fully automatic viscometer for highly viscous samples up to 120,000 mm<sup>2</sup>/s, specifically developed to cover sample types that pose great challenges to automatic sampling, measurement and cleaning because of their high pour point and viscosity. The instrument was especially developed for demanding applications of high temperature and high

viscosity products such as vacuum residue, additives, crude oils, waxes, heavy fuel oils, polymers, asphalts, etc. Because of the problems associated with heating, sampling, measuring, and cleaning these types of samples, users were forced to resort to manual processing, which is a long and tedious process Featuring a sample preheater and covering a range up to 150°C and 120,000 mm<sup>2</sup>/s, the BitUVisc finally offers users a way of automatically measuring these types of samples, resulting in very substantial time savings. By implementing specially designed Duplo measurement tubes based on the proven Ubbelohde viscometer type, the precision of the obtained results far exceeds requirements in ASTM D445 and D2170. An innovative cleaning system ensures that even the toughest samples are cleaned effectively from the inside and outside of the tube, preventing any cross-contamination.

## S-flow IV Houillon viscometer now includes an optional autosampler

The latest generation of S-flow builds on the strong foundation of its predecessors to offer the ultimate in automatic viscosity testing of Newtonian samples such as petroleum products, complying fully with ASTM D7279 and correlating with ASTM D445. The system offers all the tried and tested advantages of a Houillon-type tube design such as short process times, small sample volume, and low solvent consumption.

The new S-flow IV consists of a 2-bath system with 2 tubes in each bath, providing a total of 4 tubes. The baths were designed to work independently, making it possible to use both baths at the same temperature, or at different temperatures, ranging from 20 °C to 120 °C. Other options include dual solvent cleaning and integrated Duplo testing which obtains 2 flow time determinations with only 1 sample injection.

When paired with the Cito autosampler the S-flow turns into a fully automatic system. The Cito can work together with 1 or even 2 S-flow systems at the same time. The Cito S-flow IV autosampler has excellent repeatability and the multiple tray options make the Cito a very flexible system, while still easy to operate. The Cito autosampler is a highly efficient, compact, fast, and affordable system, operates unattended and it increases both productivity and efficiency in your lab, making it the ideal autosampler for kinematic viscosity applications.

More information online: ilmt.co/PL/Vq4d



# Houillon viscosity automated Cito S-flow IV Autosampler

### FOR HIGH THROUGHPUT AND UNATTENDED OPERATION

The first dedicated automatic sampler for Houillon kinematic viscosity testing. Cito S-flow IV autosampler works autonomously, provides excellent repeatability, and offers high throughput. It is customizable for different sample trays, can be added to any existing S-flow IV+ system in-field, and can service up to 2 S-flow IV+ instruments (8 tubes).





21



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#### More information online: ilmt.co/PL/9EZ6

