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## **CANNON introduces miniPV<sup>®</sup>-HX automatic viscometer**

CANNON Instrument Company has introduced the miniPV<sup>®</sup>-HX fully automatic polymer solution viscometer. The instrument design is based on CANNON's successful miniAV<sup>®</sup> with added functionality for the measurement of polymer solution viscosity. The miniPV<sup>®</sup>-HX is compatible with aggressive acids and solvents commonly used for the dilute



solution viscosity determination of polymers. The powerful ViscproII software provides determination of relative viscosity based on accurate flow time measurements to 1/100<sup>th</sup> second made under conditions of temperature control within 1/100<sup>th</sup> of a degree. Reduced and inherent viscosity values can also be reported and the

intrinsic viscosity can be determined by one of two single-point methods, or the more rigorous Huggins-Kraemer analysis. The software also supports Mark-Houwink-Sakurada parameters and an optional branching factor for reporting polymer molecular weight.

The new miniPV-HX delivers complete automation including tube filling, cleaning, and drying along with automatic flow time measurement and data logging into a standard database format. The Viscpro II software features provide flexible report formatting and versatile data export functionality. Dr. David Trowbridge, polymer scientist and applications engineer at CANNON Instrument Company, comments that “this new product has made accessible very accurate viscosity measurements with really none of the labor-intensive aspects that have traditionally been associated with these measurements.” The new miniPV-HX is available with an integrated autosampler that allows an entire sequence of samples to be measured without an attending operator.

The minPV-HX has a height of 30.5” and a benchtop footprint of about 40cm (15.5”) square. The modular design also includes a control unit (35cm x 40 cm, 13.5” x 15.5”) and solvent station (8cm x 33 cm, 8” x 13”) which can be stacked to conserve work space.

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