

# Vortex™



*Viscotek's Vortex™ allows operators to concentrate on testing and data analysis, rather than tedious sample preparation and delivery.*

The Vortex™ autosampler is a significant new development in automated sample preparation and delivery for GPC/SEC. It consists of an integrated autosampling device and multi-vial stirrer and is designed to increase efficiency, enhance precision and promote operator safety.

The temperature controlled, heated (up to 150°C) multi-stirrer assembly features a stainless steel tray, capable of handling either 20 ml or 40 ml vials. Each vial position has its own magnetic stirring mechanism, delivering consistent and reproducible stirring action from vial-to-vial and eliminating variability due to the dissolution process.

Accessory syringe pumps are used to dispense solvent and deliver sample. Solvent and sample delivery, dissolution times, load/inject sequences and multi-stirrer control are software controlled, effectively removing the operator from the sample dissolution and delivery process.

When coupled with Viscotek's Tetra Detector Array and Triple Detector Array, the Vortex™ provides a complete, automated system for macromolecular characterization and determination of solution viscosities.

for more information visit us @ [www.viscotek.com](http://www.viscotek.com)

# Technical Specifications



## Dimensions, Weight and Power

Width: 21.1 in. (53.5 cm)  
Height: 14.6 in. (37.1 cm)  
Depth: 17.2 in. (43.7 cm)  
Total instrument weight: 66.7 lbs. (30 kg)  
Power Supply: 120–240 VAC, 50–60 Hz, Single phase  
Fuse: 7.0 A, 250 VAC

## Software Control

Via Viscotek's OmniSEC™ GPC/SEC software package (or)

## Arm Speed

X Dimension: 9.90 in/sec (25.15 cm/sec)  
Y Dimension: 9.94 in/sec (25.25 cm/sec)  
Z Dimension: Five different speeds 0.79, 1.18, 2.44, 5.00, 9.72 in/sec  
(2.0, 3.0, 6.2, 12.7, 24.7 cm/sec)

## Probe Positioning Performance

Accuracy: +/- 1 mm in the X/Y/Z dimensions  
Repeatability: +/- 0.25 mm in the X/Y/Z dimensions

## Maximum Number of Vials

30 (20ml or 40ml)

## Temperature Range

30–150°C

## Maximum Stirring Speed

300 RPM

## Included Accessory

Syringe pump to load sample solution

## Optional Accessories

Heated Temperature Line for transfer of sample solution  
Analytical Balance for weighing samples  
Syringe Pump for solvent delivery

TDA, GPCmax, FIPA, TriSEC, ARV, PolyCAL, ViscoGEL, and Viscotek are trademarks of Viscotek, Incorporated. The 4-capillary viscometer and the 2-capillary viscometer are covered by the following U.S. Patent Nos. and corresponding foreign Patent Nos.: 4,463,598; 4,627,271. Other patents pending.

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