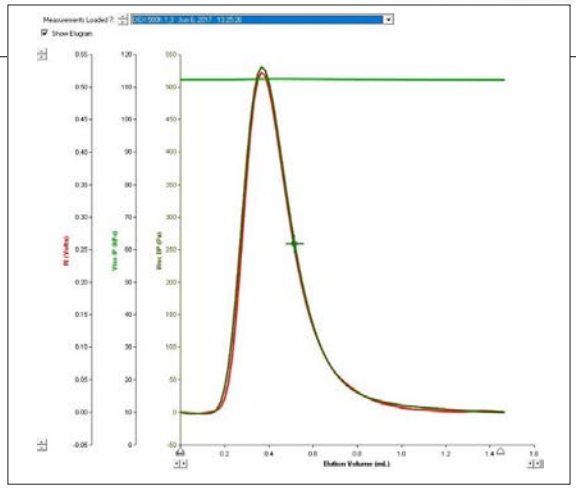
GPC/SEC Combo Detector
HK Series



Easy
Flexible
Intuitive

Use of a viscometer within a GPC/SEC System, requires a source of a concentration signal to complete the necessary calculations. The difficulty is that the DRI Detector, which is usually utilized for this task, must deliver a corresponding concentration signal for each point on the viscosity curve. This is possible with two separate instruments, precision of the results, however, will be limited due to the volume difference of the detectors. A combo instruments, where both detectors are integral part of each other, overcomes these limitations and allows a much better determination of the sample under investigation.

The Combo Refractometer /Viscometer sets a new standard for the detection of intrinsic viscosity of highly diluted samples. The Refractometer is integral part of the viscometer, therefore both concentration and viscosity are measured at exactly the same time on the very same sample segment. The Combo allows a much more accurate determination of molecular parameters and is particular suited for those application focused on the structure and branching of the investigated polymer.

SPECIFICATIONS	
DRI Cell Angle	45 °C
DRI Cell Volume	8 µl
Refractive Index Range (n_0)	1.0 to 1.75 n
Baseline Drift	2 * 10-8 RIU / 30 min
Wavelength	620 nm
Water (at 1mL/min Flow Rate)	
Absolute value inlet pressure signal	60 kPa – 100 kPa
Noise inlet pressure signal	< 50 Pa
Absolute value differential pressure signal	>- 0,5 kPa and < 7,5 kPa
Noise differential pressure signal	< 2 Pa
Drift differential pressure signal	< 10 Pa/h
THF (at 1mL/min Flow Rate)	
Absolute value inlet pressure signal	30 kPa – 50 kPa
Software	ParSEC GPC/SEC Software and others
Mains Power	90-230 V / 65 W
Temperature Range	Ambient to 80 °C
Temperature Accuracy	± 0.01 °C
Temperature Stability	> 0.05 °C
Digital Interface	USB
Weight	20 Kg approx.
Size (W, H, D)	400 x 200 x 350 mm

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