

EcoSEC Specification Sheet THE WORLD'S FIRST SEMI-MICRO GPC/SEC SYSTEM FOR HIGH THROUGHPUT POLYMER ANALYSIS

Reliability

- 7th generation of Tosoh GPC system engineering
- TSK-GEL SuperMultiporeHZ columns with extended linear molecular weight ranges
- Precise results from one EcoSEC GPC system to another

Baseline stability

Dynamic flow through both the RI sample and reference cells

Reproducibility

Temperature controlled pumps

Performance efficiency

- Improved resolution from utilizing the more efficient TSK-GEL SuperMultiporeHZ columns
- Minimal peak broadening outside of the column even for 4.6 mm ID columns
- Two-fold reduction in analysis time
- Lower solvent & disposal costs

Easy Operation

- Dedicated software
- One touch warm-up & shut down
- Overlay individual runs
- Ready for analysis in 2 hours (THF)

Global Standards

- UL 61010-1
- CE mark certification
- ➤ FDA support 21 CFR part 11



Flow rate	10 to 2,000 μL/min in 1 μL/min steps
Accuracy	+/- 2%
Precision	+/- 0.2%
Max. pressure	25 MPa or 3,500 psi
AUTO-INJECTOR	
Injection volume	1 to 1,500 μL in 1 μL increments
Number of samples	100
COLUMN OVEN	
Temperature range	ambient plus 10°C to 60°C
Capacity	7.8 mm ID x 30 cm L x 8 columns
Accuracy	+/- 0.5°C
Precision	+/- 0.02°C
RI DETECTOR	
Туре	Bryce or dual flow type. Tungsten light source (1.00 - 1.80 RI rang
Cell volume	2.5 μL
Noise	2×10 ⁻⁹ RI units (RIU)
Drift	1×10 ⁻⁷ RIU/h (THF, 1.0 mL/min)
UV DETECTOR (OPTIONAL)	
Wavelength	195 to 350 nm
Cell volume	2 μL
Time constant	0.5, 1.0 and 3.0 seconds
Noise	2.5×10⁻⁵AU (254 nm)
Drift	3×10 ⁻⁴ AU/h (254 nm)

For further details of choice and selection of the EcoSEC system,
please visit our website www.ecosec.eu
or contact one of the PSS technical specialists
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