OPTIC-5

Versatile sample introduction for gas chromatography

Liquid injection, thermal desorption and pyrolysis on a system platform.



Control unit · Original image: GL Sciences

CONTROLLED SAMPLING

OPTIC-5 controls temperature, pressure and gas flow at the inlet. Cold and hot injection, large-volume application, direct column application and derivatization in the liner expand the choice of methods.

THREE VERSIONS

Multipurpose Inlet
For liquid injections and versatile sample application.

Thermal desorbers
For commercial desorption tubes.

Pyrolyzer / Py-GCMS
For liquid and solid samples, polymers and microplastics.

SELECTED DATA

Execution format max. Temperature/heating rate
Multipurpose Inlet Liner: 81 × 5 mm 800 °C / 100 °C per second
Thermal Desorber tube: 3.5 × 1⁄4 inch 700 °C / 60 °C per second
Pyrolyzer liner: 81 × 5 mm 1,000 °C / 100 °C per second

Glass liners or glass tubes below 600 °C; use suitable quartz liners or suitable metal tubes for higher temperatures. Temperature limits apply to the respective embodiment.

A liner is the insert in the inlet into which the sample is introduced.

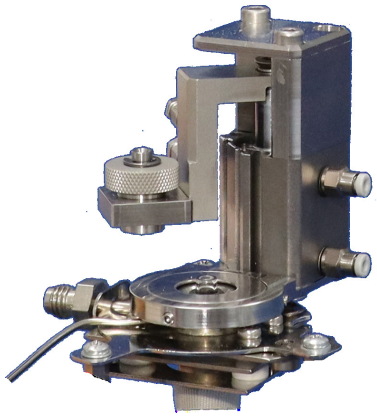
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Control and automate

Tools and options suitable for the method.

OPTICONTROL

The supplied software creates methods and manages individual measurements and sequences. Temperature, pressure and flow can be tracked live; running data and logs can be stored.



Admission · Original image: GL Sciences

EXTENSIONS

LINEX	Automatic liner change with PAL3; for solid, liquid and sorbent-bound samples.
Capping / Decapping	Liner automatically close and open immediately before the task.
Cold trap	Optional focusing with liquid nitrogen or liquid carbon dioxide.
Inlet cooling	Air cooling is standard; liquid nitrogen, carbon dioxide or Peltier cooling is optional.
Gas conduction	Optional backwashing and additional pressure or flow control.

ADVISORY AND INTEGRATION

CHROMTECH adapts the design, installation kit and automation to the existing GC or GC/MS system.

Technical basis and images: GL Sciences, OPTIC-5 Multipurpose Inlet, BV2026-8 (August 2026), as well as OPTIC-5 product overview. Editorial abbreviated English version of CHROMTECH.

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