CHROMTECH
ANALYTICAL INSTRUMENTS

Large Volume Pyrolysis

for GC-MS and GC-MS/MS

High-capacity pyrolysis with automated PAL sample handling, large-volume aluminum oxide crucibles and integrated sorbent collection for highly reproducible GC-MS and GC-MS/MS analysis.

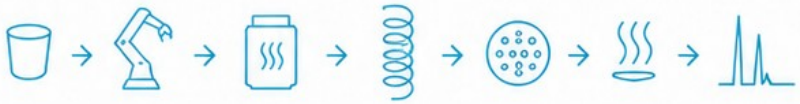


CONCEPT

The Chromtech Pyrolysis Oven extends automated pyrolysis workflows for processing large sample amounts. Combined with large-capacity aluminum oxide crucibles and fully automated PAL RSI / PAL RTC sample handling, the system enables highly reproducible large-volume pyrolysis.

Pyrolysis products are transferred through a heated transfer line and collected on selectable sorbent materials such as Tenax®, SorbStar® or PDMS. The collected analytes are subsequently thermally desorbed, chromatographically separated and detected using Agilent GC-MS or GC-MS/MS systems.

PROCESS WORKFLOW



SAMPLE	PAL RSI / RTC	CHROMTECH PYROLYSIS OVEN	HEATED TRANSFER LINE	TENAX® / SORBSTAR® / PDMS	THERMAL DESORPTION	GC-MS / GC-MS/MS
Large Al_2O_3 Crucible (600 / 900 µL)	Automated Handling	up to 1000 °C	up to 400 °C	Collection		

YOUR BENEFITS

Large-volume pyrolysis
Analyze significantly larger sample amounts using 600 µL and 900 µL aluminum oxide crucibles.

Fully automated sample handling
The PAL RSI / PAL RTC automatically transfers crucibles from the stack drawer to the quartz platform.

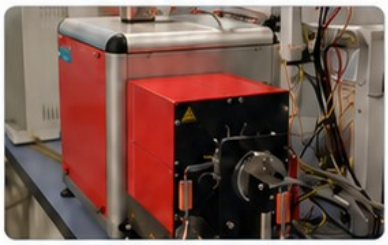
Outstanding reproducibility
Precision positioning combined with pneumatic oven locking ensures highly reproducible analytical results.

Efficient analyte collection
A heated transfer line enables efficient trapping on Tenax®, SorbStar® or PDMS sorbent materials.

Optimized for Agilent GC-MS and GC-MS/MS systems
Designed for seamless integration with Agilent Single Quadrupole and Triple Quadrupole platforms.

TECHNICAL SPECIFICATIONS

Temperature range	Up to 1000 °C
Heating rate	Up to 30 °C/min
Crucible material	Aluminum oxide
Crucible volume	600 µL / 900 µL
Stack capacity	Up to 80 crucibles
Transfer line	Heated, up to 400 °C
Sorbent materials	Tenax®, SorbStar®, PDMS
Sample handling	PAL RSI / PAL RTC
Detection	Optimized for Agilent GC-MS / GC-MS/MS
Dimensions (W × D)	Approx. 1300 × 300 mm (extended)



PYROLYSIS OVEN
Up to 1000 °C for efficient and reproducible large-volume pyrolysis.



AUTOMATED STACK DRAWER
High-capacity stack for up to 80 crucibles ensures maximum sample throughput.



PAL HANDLING INTERFACE
Precise and reliable sample transfer from the stack to the pyrolysis platform.

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