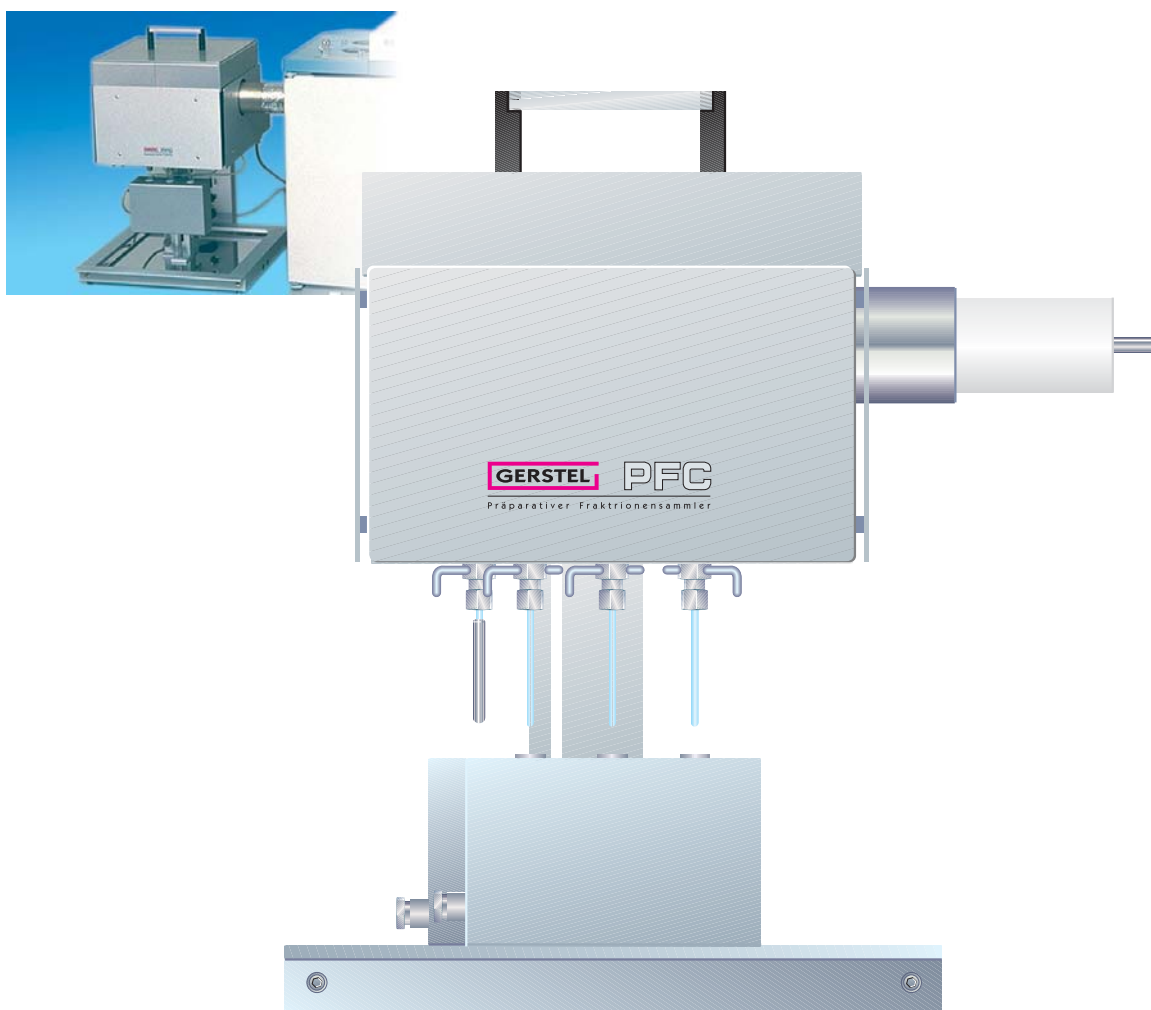




# Preparative Fraction Collector PFC

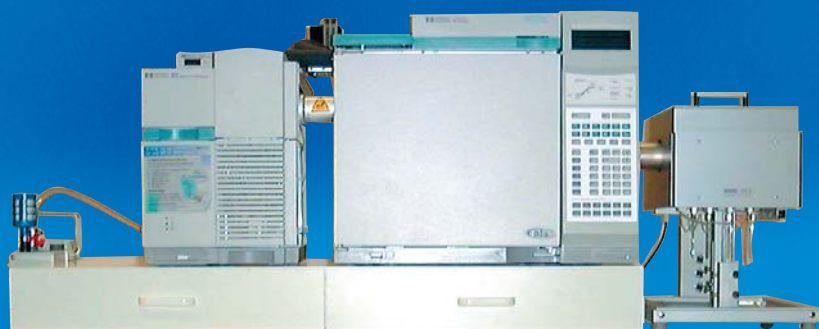
for the Collection of Pure  
Compounds Obtained from  
Capillary GC Separation



## GERSTEL PFC Preparative Fraction Collector



*Preparative switching device GERSTEL PFC*



*Integrated PFC with Agilent GC/MSD system.*

The GERSTEL PFC automatically collects compounds after gas chromatographic separation. The PFC is equipped with six sample traps and one waste trap. Traps are available in 1  $\mu$ l or 100  $\mu$ l volumes.

For optimum compound recovery, the PFC can be equipped with optional LN<sub>2</sub> or cryostatic trap cooling systems.

The GERSTEL PFC allows for the collection of individual compounds, a series of compounds, or specific classes of compounds. Thanks to microprocessor control, trap switching times can be selected to within 0.01 minutes. This permits reliable collection of individual compounds that are closely resolved.



*Integrated PFC and Dual Oven DCS-GC/MSD system*



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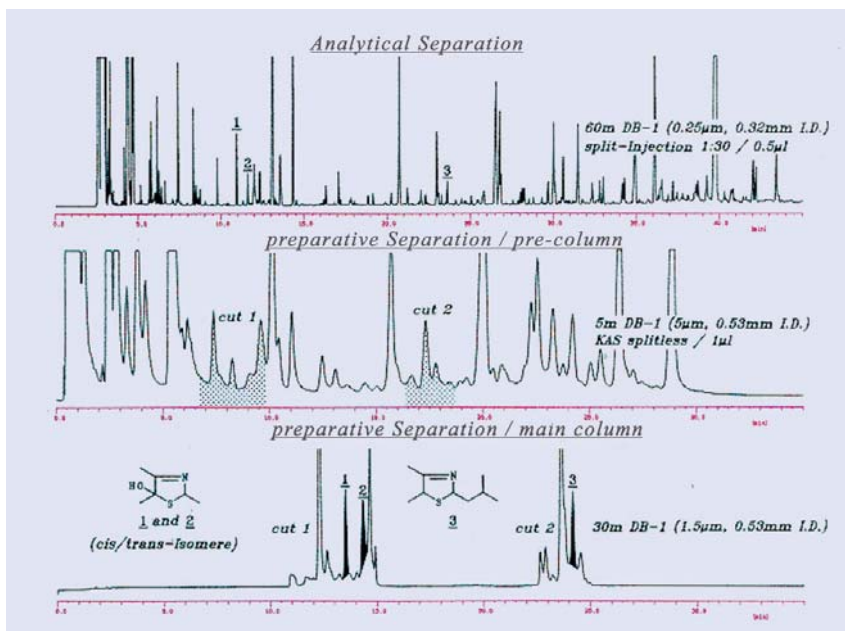
*Isolation from cis- and trans-2,4,5-Trimethyl-5-hydroxy-3-thiazoline and 2-Isobutyl-4,5-dimethyl-3-thiazoline of yeastextract*

To ensure maximum transfer efficiency, the equipment is designed without valves or cold spots in the sample flow path.

The reliability and reproducibility of the system makes it possible to trap compounds over the course of hundreds of injections. This makes it possible to further analyse the fractions by techniques requiring larger sample amounts such as NMR or IR.

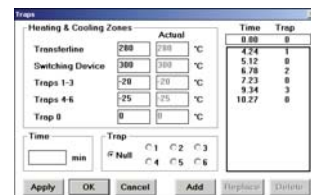
The system can be controlled by means of a hand-held GERSTEL-MAS Controller 505 keypad and/or GERSTEL-MAStEr software.

The GERSTEL PFC can be used with all common gas chromatographs, using the optional flexible heated transfer line.



**Technical Data**

- Trap switching** 0.01 min resolution
- Trap heating** up to 250 °C
- Trap cooling** LN<sub>2</sub> cooling system down to -150 °C, cryostatic cooling depends on cryostat (typically -20 °C)
- Height** 400 mm
- Length** 320 mm
- Width** 380 mm
- Weight** 12 kg



GERSTEL MAsTEr software window for PFC control



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## Ten good reasons for choosing a GERSTEL PFC:

- 1 **Microprocessor controlled** ▶ **Excellent fraction collection reproducibility**
- 2 **Six temperature controlled traps** ▶ **Improved trapping efficiency**
- 3 **Separate waste trap** ▶ **Traps all other compounds for further analysis if necessary**
- 4 **Unique monitoring system** ▶ **„Closed-split“ effluent flow divider enables for simultaneous monitoring of compounds as they reach the traps**
- 5 **No valves, no cold spots** ▶ **Minimum compound loss**
- 6 **Manual trap control** ▶ **Easy method development and optimisation**
- 7 **Windows based software** ▶ **User friendly trap programming**
- 8 **Grouping of compound classes** ▶ **Collection of all compounds of one chemical class in one trap**
- 9 **Enrichment of trace substances** ▶ **Reproducible collection of one compound from several hundred injections**
- 10 **Zero dead volume** ▶ **Leak-free compound transfer to traps, GRAPHPACK technology**



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