

# ***PREP 9000***



***Micro-Preparative  
techniques allows  
you to .....***



*Separate complex mixtures and structural isomers*

*Isolate impurities for identification or for use as standards*

*Collect components for further use e.g. NMR*



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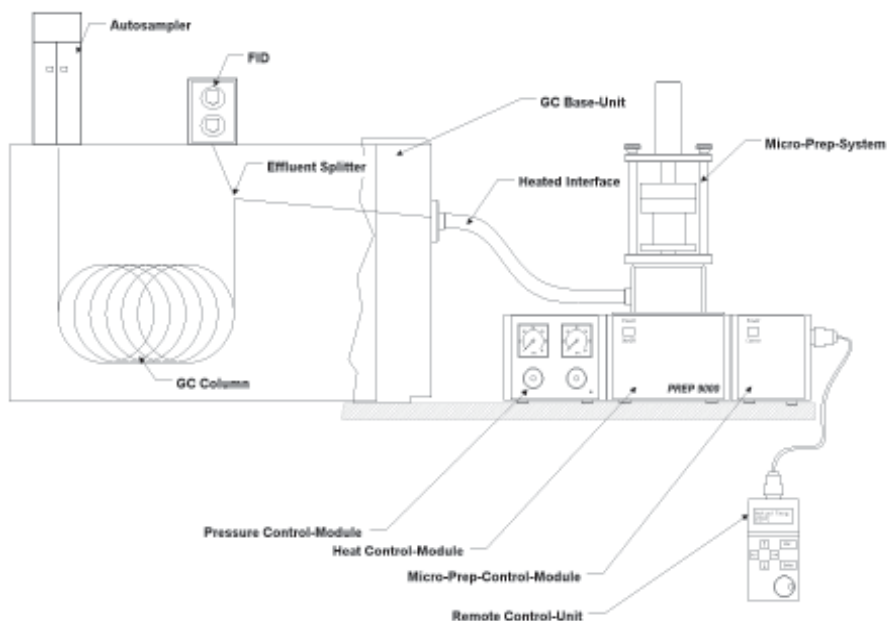
**Separate complex mixtures and structural isomers**  
**Isolate impurities for identification or for use as standards**  
**Collect components for further use e.g. NMR**

The new PREP9000 System based on the SNIFFER 9000 System has been completely redesigned in order to fit to the future needs. The system now is available as a stand alone unit to be installed to any GC available on the Market. The PREP9000 System has been designed to be a dedicated Preparative System connected to any GC available on the market by using a flexible heated interface line to the preparative unit. The new Electronic- and Pneumatic design, based on the new industry standard (LON) allows the system to be as flexible as possible for the future needs and to protect your investments in the Laboratory.



## **The Micropreparative technique**

The enrichment procedure is based on a repetitive adsorption of eluting compounds, after separation from a capillary column, by sucking them through an adsorption tube mounted on the outlet splitter. Optimisation is easily performed during a supervised GC run in a semi automatic mode. Repetitive sample processing becomes possible today with the aid of computers. Using simple logical decisions, they are able to reliably supervise even complex systems. Based on the FID signal of a reference substance the system directs the column effluent at any given time (using the time events table of any Data Handling System) into the collecting system where the individual compounds of interest are adsorbed.



## **Principle of operation**

The mixture to be separated are filled into standard Autosampler Vials which are placed into a Automatic Sampler. The sample will be injected using the On-Column technique on conditioned 0.32 mm i.d. capillary columns.

Small glass tubes filled with an adsorbent are used for sample enrichment. They are fixed in a special designed revolving drum which is screwed on a additional detector base body heated by the standard detector heating block. One branch of an exit splitter leads through available PRES-FIT T-piece. During normal run conditions the whole column effluent flows into the detector. On changing to the switch condition the effluent can be directed completely or partially into the adsorption tubes. This is accomplished by the following mechanism: The adsorption tube placed directly above the splitter branch is connected to vacuum. The vacuum is activated byswitching a solenoid valve opening the circuit to the vacuum pump. On sucking, the whole effluent can be passed through the adsorption tube, so efficiently that the flame of the FID can even be extinguished. During normal operation the solenoid valve is closed. Thus a standing gas volume, serving as a gas barrier, is obtained in the splitter branch leading the adsorption tube. Therefore, the column effluent is forced to flow through the splitter branch leading to the FID and does not contaminate the adsorption tube.



<i>Part No.</i>	<i>Description</i>
	<b>Base Unit</b>
<b>9 1005002</b>	<b>PREP 9000</b> Micro Preparative Collecting system includes: Dedicated flexible heated interface Heater control unit Hand held control unit Preparative fraction collector for up to 10 adsorption tubes Standard outfit, Manual
	<b>Accessories / Spare parts</b>
9 1000055	Flexible heated interface
9 1005110	Empty glass adsorption tubes (set of 10)
9 1005111	Empty glass adsorption tubes (set of 50)
9 1005120	Filled adsorption tubes Porapack Q (set of 10)
9 1005121	Filled adsorption tubes Porapack Q (set of 50)
9 1005130	Filled adsorption tubes Charcoal (set of 10)
9 1005131	Filled adsorption tubes Charcoal (set of 50)
9 1005140	Filled adsorption tubes TENAX (set of 10)
9 1005141	Filled adsorption tubes TENAX (set of 50)

Manufactured by:

Ditributed by:



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