


**GERSTEL**


GERSTEL PFC with rigid transfer line mounted on the right hand side.

## Preparative Fraction Collector

**PFC**

### Specifications

#### Uses

The GERSTEL Preparative Fraction Collector (PFC) collects and concentrates fractions or pure compounds following capillary GC separation. The PFC performs automated collection of up to six user-defined fractions of a sample in addition to the residue. Precise microprocessor control enables unattended operation over days to collect ultra-trace components from dozens or even hundreds of GC runs for further analysis, for example by NMR or FTIR. The PFC includes a flow-splitter to allow simultaneous monitoring of GC peaks by a detector. A unique flow-design eliminates the use of valves in the analyte flow path for best possible compound recovery.

#### System Configuration

- Compatible with most standard GCs
- Designed for parallel operation with most standard detectors including MS
- Designed for parallel operation with the GERSTEL Cryo Trap System CTS 1 or the GERSTEL Olfactory Detector Port ODP

#### Traps

- 6 preparative traps with heating and cooling option
- 1 zero trap with heating and cooling option
- Trap volume 1  $\mu\text{L}$  or 100  $\mu\text{L}$
- Special adapter for direct collection of fractions on adsorbent tubes available.

#### Trap Cooling Option

- $\text{LN}_2$  cooling<sup>\*)</sup> or closed circuit cooling
- Minimum temperature  $-150\text{ }^\circ\text{C}$  ( $\text{LN}_2$  cooling)
- Temperatures for the zero trap, traps 1-3 and traps 4-6 can be specified separately ( $\text{LN}_2$  cooling)
- Temperature range for closed circuit cooling depends on the model used

#### Trap Heating Option

- Maximum temperature  $250\text{ }^\circ\text{C}$
- Temperatures for zero trap, traps 1-3 and traps 4-6 can be specified separately

#### Trap Switching

- Sample path without valves
- Heated switching device
- PFC oven temperature max.  $400\text{ }^\circ\text{C}$
- Resolution 0.01 min
- Purity 95 % (depends on application)

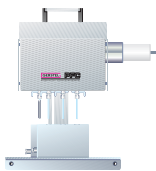
#### Transfer Line

- Can be configured on the left or right hand side
- Rigid or flexible transfer line can be selected
- Transfer temperature max.  $350\text{ }^\circ\text{C}$
- Max. distance to outer oven insulation with rigid transfer line 14 cm
- Max. distance to outer oven insulation with rigid transfer line 35 cm

#### Operating Voltage

- 100/115 VAC, 50/60 Hz or
- 230 VAC, 50/60 Hz

<sup>\*)</sup> Dewar vessel with 1.0–2.0 bar operating pressure mandatory.



## Preparative Fraction Collector PFC

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### Control

- Based on Controller C505 or C506
- in combination with the GERSTEL MAESTRO software, alternatively integrated in an Agilent® Technologies chromatography data system, or coupled to a chromatography data system from AB Sciex™ or Thermo Scientific®, or operated in stand-alone mode
- Only one method and one sequence table required for the complete system including GC/MS when integrated in the ChemStation software

### Operating Conditions

- 15 ... 35 °C
- Relative humidity max. 50-60%, non-condensing
- Max. 4615 m above sea level

### Storage Conditions

- -20 ... 50 °C
- Relative humidity max. 50-60%, non-condensing
- Max. 4615 m above sea level

### Dimensions (H x W x D)

- 47 x 32 x 38 cm

### Weight

- 12 kg