PHASER Pro

Perceive odour-active components in a targeted manner.



Odour port and control unit. Original image: GL Sciences

CHEMICAL SEPARATION AND Odor

PHASER Pro complements gas chromatography with the human nose as a detector. The column flow is divided: one part passes to the odour sport, the other to the chromatographic detector. Odor impressions can thus be assigned to the separate components.

CONTROLLED TRANSFER

The transfer line is temperature-controlled as a function of time and can be adapted to the furnace program. The continuously heated section reduces deposits of high-boiling or adsorptive components at cold points. Humidified air supports a pleasant odor rating.

SELECTED DATA

Temperature control	room temperature +20 °C to 300 °C
Temperature programmes	8 programs with up to 32 segments each
Temperature ramp	Up to 20 °C per minute
auxiliary gas	Helium or nitrogen
Transfer line	Length 1,000 mm; outer diameter 35 mm

Typical applications: food, beverages, flavours, fragrances and packaging.

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Documentation and extension

Software and accessories suitable for the application.

STANDARD: METHODS AND GAS PARTICIPATION

PHASER Pro Assistant programs the temperature of the transfer line. SplitManager supports the selection of capillaries for the division between odour sports and detector and is part of the standard delivery range.

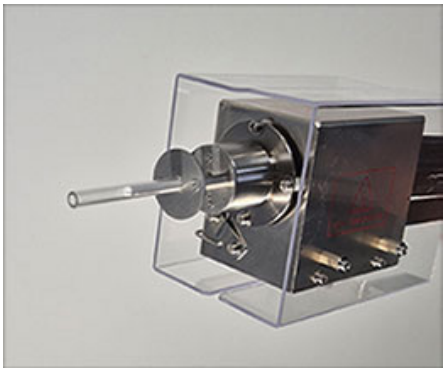
OPTION: OLFACTORY VOICEGRAM

Olfactory Voicegram combines odour quality and intensity with the chromatogram. A configurable aroma palette allows the capture by mouse click. With the optional voice recording, observations can be stored, reproduced and converted into text in a time-related manner.

OPTIONS AT THE ODOUR PORT

Y-nose cone
Alternative to the standard conical nose cone.

Group collection
Adaptors for desorption tubes with an external diameter of 5 mm or 1⁄4 inches. The collected fraction can then be analysed.



Adaptor for fraction collection. Original image: GL Sciences

CHROMTECH INTEGRATION

For common GC and GC/MS systems; built-in kit, gas distribution and options are adapted to the existing system. Capillaries, microchannel connectors, screw connections and SplitManager are part of the basic scope of supply. A computer is not included.

Technical basis and images: GL Sciences, PHASER Pro - GC-O, BV2026-8 (August 2026), pages 1 to 8. Editorial abbreviated English version of CHROMTECH.

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