


GERSTEL


Dynamic Head Space

DHS

Specifications

Uses

The GERSTEL DHS system is used to efficiently extract and concentrate VOCs from liquid or solid samples placed in standard Headspace vials prior to GC or GC/MS analysis. The DHS station provides thermostating and agitation as well as purging of the sample headspace with a controlled flow of inert gas.

System configuration

- compatible with most standard GCs
- automated operation based on the GERSTEL MultiPurpose Sampler MPS
- GERSTEL Thermal Desorption Unit TDU is used for thermal desorption of analytes
- GERSTEL Cooled Injection System CIS is used for analyte focusing prior to GC or GC/MS analysis

Sample volume

- max. 10 mL, in 20 mL headspace vials

Adsorbent tubes

- standard GERSTEL TDU tubes
- detailed information on TDU tubes and adsorbent materials is available in a separate flyer

Analyte transfer

- using a needle, between the Headspace vial and TDU tube, similar to standard headspace technique
- no transfer line in system

Cooling option

- peltier cooling UPC

Incubation temperature

- 30 ... 200 °C
- 10 ... 200 °C with Universal Peltier Cooling UPC

Trap Temperature

- 20 ... 70 °C

Transfer temperature

- max. 150 °C

Agitation speed

- 250 ... 1500 rpm

Gases

- He
- N₂

Gas purge volume

- max. 100 litres

Gas flow

- 5 ... 100 mL/min
- controlled by a mass flow controller

Control

- based on Controller C506
- in combination with the GERSTEL MAESTRO software, integrated in the Agilent® Technologies ChemStation software 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



DynamicHeadSpace DHS

Dimensions (H x W x D)

- 27.5 x 7.5 x 27.5 cm

Weight

- 2.6 kg

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