



Cryo Trap System

CTS 2

Specifications

Uses

The CTS 2 is used for cryogenic trapping of analytes either before a single GC column or between the pre-column and the analytical column in a single GC oven multidimensional system. When trapping has been completed, analytes are released from the trap using a highly accurate temperature program ensuring the best possible introduction to the analytical column for optimal analyte separation and detection limits. Analytes can be concentrated from multiple injections onto the pre-column and subsequently separated and determined in one run on the analytical column helping to achieve better limits of detection.

System Configuration

- Compatible with Agilent® Technologies GC 6890 and 7890
- Can be used with capillary columns with an outer diameter of up to 1 mm
- Used as a cryotrap for GERSTEL Multidimensional Column Switching System MCS

Cooling Option

- LN₂ cooling ¹⁾

Temperature Programming

- 2 temperature ramps
- Heating rate: 20 °C/s max.
- Initial temperature -150 ... 400 °C
- 1. hold temperature -150 ... 400 °C
- 2. hold temperature 0 ... 400 °C
- Hold time maximum 650 min for each hold temperature

Thermostated Zone

- 1 combined zone that can be cooled or heated, length 8 cm

Control

- With the controller C506
- In combination with the GERSTEL MAESTRO software, either in stand-alone mode or integrated in an Agilent® Technologies chromatography data system (CDS), or coupled to a CDS from Thermo Scientific®
- 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 (L x Ø)

- 85 x 35 mm

Weight

- 250 g

Cryo Trap Enrichment System

- CTE 2
The Cryo Trap Enrichment System CTE 2 consists of a CTS 2 and a pneumatic module that enables venting of the pre-column effluent combined with separate pneumatic control of the analytical column.

¹⁾ Dewar vessel with 1.0–2.0 bar operating pressure mandatory.

Custom solutions for special performance requirements available upon request.