

Transmission

Storm™ 10H - Heated Gas Cell

The Storm™ 10H Heated Gas Cell is a single pass, 10cm fixed pathlength design, for the measurement of the infrared spectra of concentrated gases, gas mixtures and vapours (>1% levels) at temperatures up to 250°C. Solid and liquid decomposition studies can also be performed and the cell can be operated in static or flow-through modes.

The cell consists of a stainless steel evacuable chamber with an injection septum sample introduction port, thermocouple port and vacuum valve. Windows are secured using threaded end caps and chemically resistant seals. The cells can be dismantled to allow easy cleaning and window replacement.

Low voltage heaters and a dedicated High Stability Temperature Controller allow safe and accurate sample heating. The temperature is measured with a thermocouple situated in the cell cavity. An RS232, RS485 or USB option allow independent temperature control using a computer.

A comprehensive range of replacement windows ensures that cells can be configured to precisely suit analytical requirements.

CE Compliance

The Storm 10H Heated Gas Cell system is CE compliant ensuring that it can be operated safely at all times under the recommended conditions.

Specifications

Pathlength	10cm
Volume	114cm ³
Pressure Range	Vacuum to ambient
Temperature Range	Ambient to 250°C
Body Material	Stainless Steel
Clear Aperture	38mm
Windows	Client to specify
Seals	Silicon
Heaters	36 Volts / 120 Watts
Thermocouple	K-type NiCr/NiAl
Temperature controller	Specac Series 4000
Mount	3" x 2"



Applications

- Analysis of concentrated gases & vapours
- Decomposition studies of solids and liquids

Standard Features

- 10cm fixed pathlength single pass design
- Heated operation up to 250°C
- Temperature control to +/- 1°C
- Demountable design for ease of cleaning
- Stainless Steel construction
- Choice of window materials
- Static or flow mode

Ordering Information

GS05670 10cm Heated Gas Cell body with Controller and mount (Specify voltage and country)

For a complete Storm™ 10H Heated Gas Cell system, please order the gas cell body and a pair of windows of your choice.

Spares and Consumables

- GS05662** Flow Tubes (stainless steel, 10)
- GS05665** Injection Septa (10)
- GS05667** Seal Kit for 10cm Heated Gas Cell

Window Options

- GS05020** Pair of NaCl windows
- GS05121** Pair of KBr windows
- GS05022** Pair of CaF₂ windows
- GS05023** Pair of BaF₂ windows
- GS05096** Par of ZnSe windows

Options

- GS28000** RS232 Connection kit
- GS28001** USB Connection kit
- GS28002** RS485 Connection kit

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