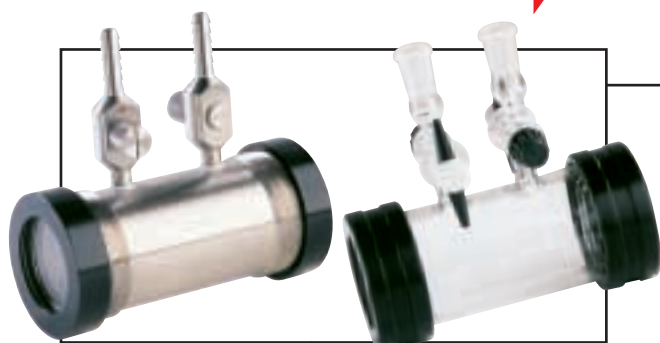




Storm™ 10 Short Pathlength Gas Cell



The Storm™ 10 series gas cells are the ideal choice for measuring the infrared spectra of concentrated gases, gas mixtures and vapors (>1% levels) at ambient temperatures and pressures. Cells are suitable for operation in all modern FT-IR spectrometers using a cell mount.

The 10cm fixed pathlength design is user demountable allowing for easy cleaning and maintenance.

Applications flexibility and chemicals compatibility is ensured through a range of body materials (Pyrex or Stainless Steel) and a wide choice of window materials.

Gases can be analysed in static or flow modes, and stopcock valves are provided for evacuation, sample introduction and release.

Product Highlights

- 10cm fixed pathlength single pass design
- Demountable design for ease of maintenance
- Choice of cell body materials
- Choice of window materials
- Twin taps for evacuation, static or flow-through operation

Specifications

Pathlength:	10cm
Volume:	132cm ³ (Pyrex) 114cm ³ (Stainless Steel)
Pressure range:	Vacuum to ambient
Temperature range:	Ambient
Body material:	Pyrex or Stainless Steel
Window seals:	Neoprene
Clear aperture:	38mm
Windows:	Client to specify
Mount:	Standard 3"x 2"

Applications

- Analysis of concentrated gases & vapors
- Residual solvent vapor analysis
- Liquid head space analysis

Storm™ 10 Gas Cell Ordering Information

- P/N 5000 - 10cm Pyrex Gas Cell body
- P/N 5800 - 10cm Stainless Steel Gas Cell body
- P/N 5030 - Cell Mount for 10cm Gas Cells

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

Spares and Consumables

- P/N 5040 - Seal Kit for Pyrex Gas Cell
- P/N 5050 - Stopcock for Pyrex Gas Cell
- P/N 5803 - Vacuum Valve for Stainless Steel Gas Cell
- P/N 5804 - Seal Kit for Stainless Steel Gas Cell

Window Options

- P/N 5020 - Pair of NaCl windows
- P/N 5021 - Pair of KBr windows
- P/N 5022 - Pair of CaF₂ windows
- P/N 5023 - Pair of BaF₂ windows
- P/N 5096 - Pair of ZnSe windows

Contact Specac Sales for special window options



Storm™ 10H Short Pathlength 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 (> 1% levels), gas mixtures and vapors 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. A RS232 interface allows 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.

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
- 3" x 2" slide mounted
- CE compliant

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 3000
Mount:	3" x 2"

Applications

- Analysis of concentrated gases & vapors
- Decomposition studies of solids & liquids

Storm™ 10H Gas Cell Ordering Information

P/N 5670 10cm Heated Gas Cell body with Controller
(without windows)

(Specify voltage and country)

For a complete heated gas cell system, Storm™ 10H should be ordered with a pair of windows of your choice.

Spares and Consumables

P/N 5662 Flow Tubes (stainless steel, 10)

P/N 5665 Injection Septa (10)

P/N 5667 Seal Kit for 10cm Heated Gas Cell

Window Options

P/N 5020	Pair of NaCl windows
P/N 5121	Pair of KBr windows
P/N 5022	Pair of CaF ₂ windows
P/N 5023	Pair of BaF ₂ windows
P/N 5096	Pair of ZnSe windows

Contact Specac Sales for special window options

smiths
A part of Smiths Group plc

Specac



SPECAC LIMITED,
River House, 97 Cray Ave, St. Mary Cray,
Orpington, Kent BR5 4HE, U.K.
Tel : +44 (0)1689 873134
Fax : +44 (0)1689 878527
Registered No. 1008689 England

SPECAC INC.,
Toll Free : +1 800 447 2558
www.specac.com

Specac is part of Smiths Group plc