

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 vapours (>1% levels) at ambient temperatures and pressures. These cells are suitable for operation in all modern FT-IR spectrometers using a standard 3" x 2" cell mount.

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

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

Gasses can be analyzed in static or flow modes, and stopcock valves provide for evacuation, sample introduction and release.

HIGHLIGHTS

- 10 cm fixed pathlength single pass design
- Demountable design for ease of maintenance
- Choice of body and window material
- Twin taps for evacuation, static or flow-through operation
- Heating up to 250°C available as option for the stainless steel version (Details see next page)

Order Information	
Part ID	Description
35000	10 cm Pyrex Gas Cell Body
35800	10 cm Stainless Steel Gas Cell Body
35030	Cell Mount for 10 cm Gas Cells
Window Options	
35020	Pair of NaCl Windows
35021	Pair of KBr Windows
35022	Pair of CaF ₂ Windows
35023	Pair of BaF ₂ Windows
35096	Pair of ZnSe Windows
For a complete Storm™ 10 Gas Cell System please order a gas cell body, cell mount and a pair of windows of your choice.	



Pyrex Gas Cell



Stainless Steel Gas Cell

In both versions, the window diameter is 47 mm, and the free aperture is 38 mm.

Spezifikationen	
Pathlength	10 cm
Volume	132 cm ³ (Pyrex) 114 cm ³ (Stainless Steel)
Pressure Range	Vacuum to ambient
Temperature Range	Ambient
Body Material	Pyrex or Stainless Steel
Window Seal	Neoprene
Clear Aperture	38 mm
Windows	Client to specify
Mount	Standard 3" x 2"

Heated Short Pathlength Gas Cell

The Storm™ 10H Heated Gas Cell is based on the Stainless steel version of the Storm™ Gas Cell. It is designed to work in ambient conditions up to 250 °C. The Cell consists of the cell body, a thermocouple port and vacuum valve. With the temperature controller you can specify the temperature to +/- 1 °C.

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.

The Storm™ 10H Heated Gas Cell is CE compliant.



Heated Gas Cell

Order Information	
Part ID	Description
35670	10 cm Heated Stainless Steel Gas Cell Body with Temperature controller and mount
Window Options	
35020	Pair of NaCl Windows
35021	Pair of KBr Windows
35022	Pair of CaF ₂ Windows
35023	Pair of BaF ₂ Windows
35096	Pair of ZnSe Windows
For a complete Storm™ 10 heated Gas Cell System please order the gas cell body a pair of windows of your choice.	

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