

Heatable Transmission Cells (Static and Flow)

Heatable transmission cells for both solid and liquid sampling. The liquid cells can be specified for both static and flowing sample conditions.

The cells may be used in conjunction with a 3"x2" slide mounted holder or fitted to any of Specac's advanced transmission cell holders.



Heatable Liquids Cells

- Designed to be heated or cooled**
 Stainless-steel cells suitable for heating/cooling from 250 to -70 °C. An additional measuring thermocouple (not included) can be fitted if required.
- Flow or Static**
 Static cells are supplied with a Luer fitting for easy sample injection. Flow cells are fitted with 1/16" Swagelok connections for use with sample pumping systems.
- Range of Pathlengths**
 6 - 1000 µm
- Extensive selection of window materials**
 Our range of windows cover spectral ranges from the UV, to near- and mid-IR.
- Demountable windows**
 The windows and spacers are removable for cleaning or replacement

Heatable Solids Cells



- Designed to be heated or cooled**
 Stainless-steel cells suitable for heating/cooling from 250 to -190 °C. An additional measuring thermocouple (not included) can be fitted if required.
- Variable aperture size**
 Sample diameters from 12 to 30 mm, up to 8 mm thick. Electrical Heating Jacket: 12 to 28 mm diameter, up to 3 mm thick

Compatible Cell Holders

Variable Temperature (VT) Cell (GS21525)



Vacuum-jacketed cooling chamber for analysis at temperatures as low as -190 °C, with electric heating for analysis up to 250 °C.

Electrical Heating Jacket (GS20730)



Heated cell holder for analysis from ambient temperature up to 250 °C.

Water Heating Jacket (GS20710)



Heated cell holder for analysis from ambient temperature up to 90 °C using a circulating fluid for heating.

Ambient Cell Holder (GS20740)



Basic 3"x2" inch cell mount for the heatable cell range.

Liquid Cell Volume Guide

Approximate cell volume for given spacer:

0.006 mm:	1.60 µl	0.012 mm:	3.25 µl
0.025 mm:	6.80 µl	0.05 mm:	13.50 µl
0.10 mm:	27.00 µl	0.20 mm:	54.00 µl
0.50 mm:	135.0 µl	1.0 mm:	270.0 µl

Ordering Information

Heatable Liquids Transmission Cell

1. Select Cell Configuration:

Flow Condition	Static	Flow	Flow
Fittings	Luer Adaptor	1/16 inch Pipe with Swagelok Union	1/16 inch Swagelok Fitting

2. Check Holder Compatibility:

VT Cell (GS21525)	Yes	Yes*	No
Electrical Heating Jacket (GS20730)	Yes	Yes	Yes
Water Heating Jacket (GS20710)	Yes	Yes	Yes
Ambient Cell Holder (GS20740)	Yes	Yes	Yes

Notes: * Requires flow tubes (GS20080) for use with the VT cell.

3. Choose Window and Select Part Number:

NaCl	GS20510	GS20590	GS20580
KBr	GS20511	GS20591	GS20581
CaF ₂	GS20512	GS20592	GS20582
BaF ₂	GS20513	GS20593	GS20583
ZnSe	GS20519	GS20594	GS20586
Spec B (UV Quartz)	GS20529		GS20588

4. Select Pathlength (please specify with Part Number):

Pathlength (mm) <i>0.006, 0.012, and 0.025 mm spacers are made from Mylar. All others are made from PTFE.</i>	0.006
	0.012
	0.025
	0.05
	0.1
	0.2
	0.5
	1.0
	10

Heatable Solid Transmission Cell



1. Select Cell Configuration:

Flow Condition	Static	Static
Window Configuration	None	None
Aperture (Sample diameter) / mm	10 (12-28)	10 (12-17) 15 (17-22) 20 (22-30)
Sample Max Thickness / mm	3	8

2. Check Holder Compatibility:

VT Cell (GS21525)	No	Yes
Electrical Heating Jacket (GS20730)	Yes	No
Water Heating Jacket (GS20710)	Yes	Yes
Ambient Cell Holder (GS20740)	Yes	Yes

3. Select Part Number:

	GS20600	GS20610
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Ambient Cell Holder

Ambient Cell Holder GS20740

Spares for Heatable Liquids Transmission Cell Replacement Demountable Window Sets

NaCl Windows (pair)	GS20520
KBr Windows (pair)	GS20521
CaF ₂ Windows (pair)	GS20522
BaF ₂ Windows (pair)	GS20523
ZnSe Windows (pair)	GS20596
Spec B (UV Quartz) Windows (pair)	GS20598

Spacers

16 x Assorted Spacers GS20050

(2 each of 0.006, 0.012, 0.025, 0.05, 0.1, 0.2, 0.5, 1.0 mm)*

10 x Spacers GS20070

(Select 1 pathlength: 0.006, 0.012, 0.025, 0.05, 0.1, 0.2, 0.5, 1.0 mm)*

*Mylar: 0.006, 0.012 & 0.025 mm. PTFE: 0.05, 0.1, 0.2, 0.5, 1.0 mm.

Spares

10 x Front & Rear PTFE Gasket	GS20040
Flushing Tube Kit	GS10030
Threaded Luer Fitting (Static Cell)	GS10040
10 x Syringe Needles (Static Cell)	GS10050
2 x Stainless Steel Plugs (Static Cell)	GS10060
10 x PTFE Plug Washer (Static Cell)	GS10070
Heatable Liquids Static Cell Essential Spares Kit	GS20539
Heatable Liquids Flow Cell Essential Spares Kit	GS20569

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