

# FREE-STANDING SEALED LIQUID CELLS

## Flexible Mounting and Reproducibility in Quantitative Analysis

- Precision fixed sampling pathlength
- Proprietary seal technology for leak free operation
- Versions optimized for your applications
- Mounts in your holder or optional Demountable Liquid Cell



The Spectral Systems Free-Standing Sealed Liquid Cells are designed for flexible mounting in a variety of cell holders including the Free-Standing Liquid Cell Holder. Fill port versions available are Luer Lock or tubular. The Spectral Systems Horizon-Fill™ Liquid Cell is designed with horizontal Luer Lock ports for easy liquid sample fill. The Spectral Systems Veri-Fill™ Liquid Cell is designed with vertical Luer Lock ports recommended for very low viscosity liquid samples. And, the Spectral Systems Trans-Flow™ Liquid Cell is designed with integrated tubular fill ports – optimum for continuous flow sampling. Our proprietary sealing technology provides for leak free operation, exceptional durability and maximum productivity.

The Free-Standing Sealed Liquid Cells are available with your choice of sampling pathlength and window materials. Window materials used in the Free-Standing Sealed Liquid Cells are of the highest quality composition and maximum flatness for precision quantitative analysis.

We recommend selection of our Free-Standing Liquid Cell Holder for ease of mounting these cells in your spectrometers. For your convenience, we offer factory calibration of any of our Free-Standing Sealed Liquid Cells.

### SPECIFICATIONS

Cell Geometry	Circular
Cell Diameter	32 mm
IR Beam Port Geometry	Circular
IR Beam Port Diameter	13 mm
Nominal Pathlength	±10%
Seal Type	Proprietary, leak free
Fill Port Type	Luer Lock or tubular (1/8" OD)
Window Flatness	$\lambda/5$ at 10.6 micron (Except KRS-5)

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## ORDERING INFORMATION

### Free-Standing Liquid Cell Holder

DESCRIPTION	PART NO.
Free-Standing Liquid Cell Holder	097-3700

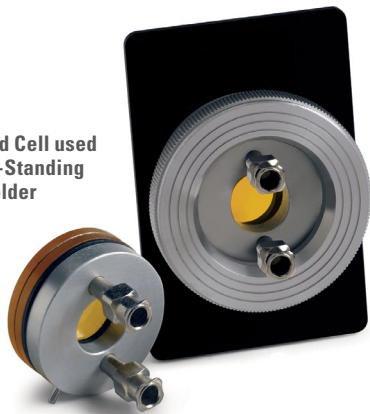
Free-Standing Liquid Cell Holder includes holder and protective rear gasket.

### Horizon-Fill, Sealed Liquid Cells

PATHLENGTH (MM) VOLUME (ML)	0.015 0.005	0.025 0.009	0.050 0.018	0.100 0.036	0.150 0.054	0.200 0.072	0.500 0.18	1.000 0.36	5.000 1.8	10.000 3.6
BaF <sub>2</sub>	097-35-001	097-35-002	097-35-003	097-35-004	097-35-005	097-35-006	097-35-007	097-35-008	097-35-009	097-35-000
CaF <sub>2</sub>	097-36-001	097-36-002	097-36-003	097-36-004	097-36-005	097-36-006	097-36-007	097-36-008	097-36-009	097-36-000
CsI	097-37-001	097-37-002	097-37-003	097-37-004	097-37-005	097-37-006	097-37-007	097-37-008	097-37-009	097-37-000
IR Quartz	097-41-001	097-41-002	097-41-003	097-41-004	097-41-005	097-41-006	097-41-007	097-41-008	097-41-009	097-41-000
KBr	097-38-001	097-38-002	097-38-003	097-38-004	097-38-005	097-38-006	097-38-007	097-38-008	097-38-009	097-38-000
KRS-5	097-39-001	097-39-002	097-39-003	097-39-004	097-39-005	097-39-006	097-39-007	097-39-008	097-39-009	097-39-000
NaCl	097-40-001	097-40-002	097-40-003	097-40-004	097-40-005	097-40-006	097-40-007	097-40-008	097-40-009	097-40-000
ZnSe	097-42-001	097-42-002	097-42-003	097-42-004	097-42-005	097-42-006	097-42-007	097-42-008	097-42-009	097-42-000
ZnS	097-43-001	097-43-002	097-43-003	097-43-004	097-43-005	097-43-006	097-43-007	097-43-008	097-43-009	097-43-000

Free-Standing Sealed Liquid Cells include Teflon® stoppers (2 each) to complete the seal of your sample within the cell.

Veri-Fill Liquid Cell used with our Free-Standing Liquid Cell Holder



Horizon-Fill Liquid Cell used with our Free-Standing Liquid Cell Holder



### Veri-Fill, Sealed Liquid Cells

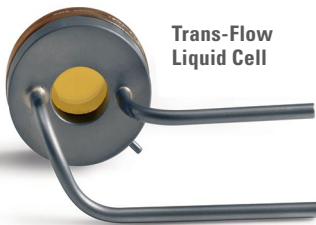
PATHLENGTH (MM) VOLUME (ML)	0.015 0.005	0.025 0.009	0.050 0.018	0.100 0.036	0.150 0.054	0.200 0.072	0.500 0.18	1.000 0.36	5.000 1.8	10.000 3.6
BaF <sub>2</sub>	097-25-001	097-25-002	097-25-003	097-25-004	097-25-005	097-25-006	097-25-007	097-25-008	097-25-009	097-25-000
CaF <sub>2</sub>	097-26-001	097-26-002	097-26-003	097-26-004	097-26-005	097-26-006	097-26-007	097-26-008	097-26-009	097-26-000
CsI	097-27-001	097-27-002	097-27-003	097-27-004	097-27-005	097-27-006	097-27-007	097-27-008	097-27-009	097-27-000
IR Quartz	097-31-001	097-31-002	097-31-003	097-31-004	097-31-005	097-31-006	097-31-007	097-31-008	097-31-009	097-31-000
KBr	097-28-001	097-28-002	097-28-003	097-28-004	097-28-005	097-28-006	097-28-007	097-28-008	097-28-009	097-28-000
KRS-5	097-29-001	097-29-002	097-29-003	097-29-004	097-29-005	097-29-006	097-29-007	097-29-008	097-29-009	097-29-000
NaCl	097-30-001	097-30-002	097-30-003	097-30-004	097-30-005	097-30-006	097-30-007	097-30-008	097-30-009	097-30-000
ZnSe	097-32-001	097-32-002	097-32-003	097-32-004	097-32-005	097-32-006	097-32-007	097-32-008	097-32-009	097-32-000
ZnS	097-33-001	097-33-002	097-33-003	097-33-004	097-33-005	097-33-006	097-33-007	097-33-008	097-33-009	097-33-000

Free-Standing Sealed Liquid Cells include Teflon stoppers (2 each) to complete the seal of your sample within the cell.

## Trans-Flow, Sealed Liquid Cells

PATHLENGTH (MM) VOLUME (ML)	0.015 0.005	0.025 0.009	0.050 0.018	0.100 0.036	0.150 0.054	0.200 0.072	0.500 0.18	1.000 0.36	5.000 1.8	10.000 3.6
BaF <sub>2</sub>	097-45-001	097-45-002	097-45-003	097-45-004	097-45-005	097-45-006	097-45-007	097-45-008	097-45-009	097-45-000
CaF <sub>2</sub>	097-46-001	097-46-002	097-46-003	097-46-004	097-46-005	097-46-006	097-46-007	097-46-008	097-46-009	097-46-000
CsI	097-47-001	097-47-002	097-47-003	097-47-004	097-47-005	097-47-006	097-47-007	097-47-008	097-47-009	097-47-000
IR Quartz	097-51-001	097-51-002	097-51-003	097-51-004	097-51-005	097-51-006	097-51-007	097-51-008	097-51-009	097-51-000
KBr	097-48-001	097-48-002	097-48-003	097-48-004	097-48-005	097-48-006	097-48-007	097-48-008	097-48-009	097-48-000
KRS-5	097-49-001	097-49-002	097-49-003	097-49-004	097-49-005	097-49-006	097-49-007	097-49-008	097-49-009	097-49-000
NaCl	097-50-001	097-50-002	097-50-003	097-50-004	097-50-005	097-50-006	097-50-007	097-50-008	097-50-009	097-50-000
ZnSe	097-52-001	097-52-002	097-52-003	097-52-004	097-52-005	097-52-006	097-52-007	097-52-008	097-52-009	097-52-000
ZnS	097-53-001	097-53-002	097-53-003	097-53-004	097-53-005	097-53-006	097-53-007	097-53-008	097-53-009	097-53-000

Free-Standing Sealed Liquid Cells include Teflon stoppers (2 each) to complete the seal of your sample within the cell.



Trans-Flow  
Liquid Cell

## Free-Standing Sealed Liquid Cells Calibration

DESCRIPTION	PART NO.
Calibration of Liquid Cell	097-00-000

Please order 1 each of this part number for each cell to be calibrated.

## Replacement Parts, Options for Free-Standing Sealed Liquid Cells

DESCRIPTION	PART NO.
Teflon Stoppers (12 each)	097-3711
Glass Syringe, 1 mL	097-3801
Glass Syringe, 5 mL	097-3805
Glass Syringe, 10 mL	097-3810

For other options for Free-Standing Sealed Liquid Cells, please contact Spectral Systems.