

SUPER-SEALED LIQUID FLOW CELL



Optimized Design for Continuous Flow Applications

- Rugged, heavy duty design compatible with continuous use
- Large IR port diameter to accommodate high flow rates
- Proprietary seal technology for leak free operation
- Designed for optimized flow
- Rectangular plate design to fit your FT-IR spectrometer standard slide mount
- Individually serialized to aid in record keeping and traceability
- Optional factory calibration for your convenience and method certainty

The Spectral Systems Super-Sealed™ Liquid Flow Cells are designed and manufactured for continuous flow infrared transmission sampling applications. The large port diameter permits higher flow rates to speed feedback of component concentration. Spectral Systems Super-Sealed Liquid Flow Cells are designed for optimized laminar flow allowing the sample to flow with minimized lateral mixing. The proprietary seal technology used in our Super-Sealed Liquid Flow Cells provides for leak free operation, exceptional durability and maximum sample compatibility. The cell mount for the Super-Sealed Liquid Flow Cell is the standard 2.0" × 3.0" side mount to fit your FT-IR spectrometer. All Super-Sealed Liquid Flow Cells are manufactured with Luer Lock fill ports for convenient connection with flow tubing and peristaltic pumping systems. The Super-Sealed Liquid Flow Cells are available with your selection of sampling pathlength and window materials. Window materials used in the Super-Sealed Liquid Flow Cells are of the highest quality composition and maximum flatness for precision quantitative analysis. For special applications we offer our Spectral Systems XP-BBAR™ coating for our Super-Sealed Liquid Flow Cells to increase IR throughput of high refractive index window materials. For your convenience we offer factory calibration of any of our Super-Sealed Liquid Flow Cells.

SPECIFICATIONS

Plate Geometry	Rectangular
Plate Dimensions	2.0" W × 3.0" H
IR Beam Port Geometry	Oblong
IR Beam Port Diameter	18 mm W × 25 mm H
Nominal Pathlength	±10% guaranteed
Calibrated Pathlength	Optional
Seal Type	Proprietary, leak free
Fill Port Type	Luer Lock
Window Flatness	$\lambda/5$ at 10.6 micron

ORDERING INFORMATION

Super-Sealed Liquid Flow Cells

PATHLENGTH (MM)	1.000	2.000	4.000
VOLUME (ML)	0.47	0.94	1.88
Caf ₂	097-76-001	097-76-002	097-76-003
ZnSe	097-72-001	097-72-002	097-72-003

Super-Sealed Liquid Flow Cells include Teflon® stoppers for storage of the cell. Please contact Spectral Systems for other pathlengths and window material.

Super-Sealed Liquid Flow 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 Super-Sealed Liquid Flow 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 Super-Sealed Liquid Flow Cells, please contact Spectral Systems.