



## High Pressure Demountable Liquid Cells

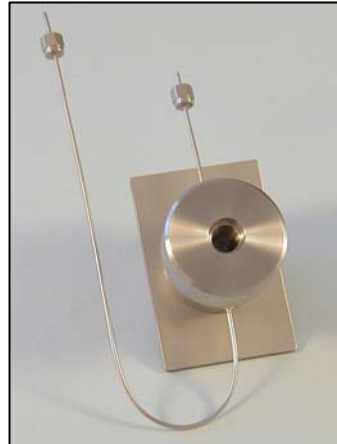
Temperature Controlled Demountable Liquid Cells are intended for examining liquids and mulls at temperatures ranging from -80°C to 260°C. Their leak-free design makes them suitable for static and flow operation. In addition, these 316 stainless steel cells feature high chemical resistance and readily exchanged pathlength spacers.

### APPLICATIONS

- ▶ Infrared measurements of liquids, mulls and smears at elevated and reduced temperatures.
- ▶ Process control and laboratory applications.

### FEATURES

- ▶ Variable pathlength (6µm to 1mm).
- ▶ Easy to disassemble, clean and replace the windows.
- ▶ 8mm clear aperture.
- ▶ Chemically resistant 316 stainless steel body.
- ▶ Two ports with 1/16" Swagelok™ fittings for static and flow-through applications.
- ▶ Two models available:
  - ▶ High Pressure Transmission Liquid Cell designed for operation to 34.5 MPa (5000 psi) with appropriate windows.
  - ▶ Temperature-Controlled High Pressure Cell.
    - Heatable to 200°C with Viton O-rings or 240°C with Kalrez O-rings.
    - Thermally-insulated.
    - Features flow-through coolant conduit.
    - K-type thermocouple.
    - Imbedded cartridge heaters.
    - Maximum pressure depends on operating temperature and window material.
- ▶ Optional stainless steel spacers available for pathlengths up to 5mm.



316 Stainless Steel Spacers	
0.1mm	HPL-M01
0.2mm	HPL-M02
0.5mm	HPL-M05
1.0mm	HPL-M10
2.0mm and 3.0mm Set	HPL-M20
4.0mm and 5.0mm Set	HPL-M40

Windows	13x6 mm
ZnS	WID-U62
ZnSe	WMD-U62

Spacers Sets (12 per package)	
6µm	MSP-006-M13
12µm	MSP-012-M13
25µm	MSP-025-M13
56µm	MSP-056-M13
100µm	MSP-100-M13
150µm	MSP-150-M13
250µm	MSP-250-M13
390µm	MSP-390-M13
500µm	MSP-500-M13
630µm	MSP-630-M13
750µm	MSP-750-M13
950µm	MSP-950-M13
Assorted Spacers	
one each: 6, 12, 25, 56, 100, 150, 250, 390, 500, 630, 750 and 950 µm	
assorted	PSA-M13

### INCLUDES

- ▶ Stainless steel transmission cell, Viton O-rings, and mounting hardware for the windows.
- ▶ Assorted pathlength spacers. One each of the following thicknesses: 6, 12, 25, 65, 100, 150, 250, 390, 500, 630, 750, and 950µm..
- ▶ Heatable model includes K-type thermocouple, low-voltage heaters and cooling conduit.
- ▶ Slide plate mounting for easy installation in FTIR spectrometers.
- ▶ Order 13x6mm windows separately.

### ORDERING INFORMATION

High Pressure Liquid Cell.....	CATALOG No. HPL-C-13
Temperature Controlled High Pressure Liquid Cell, 24V.....	HPL-TC-13-3

### OPTIONS AND REPLACEMENT PARTS

Viton O-Ring.....	ORV-012
Kalrez O-Ring.....	ORK-012
Temperature Controller, 110V input, 24V output. Includes USB adapter.....	ATK-024-3
Temperature Controller, 220/240V input, 24V output (CE marked). Includes USB adapter.....	ATK-024-4