

## High Pressure Demountable Liquid Cells

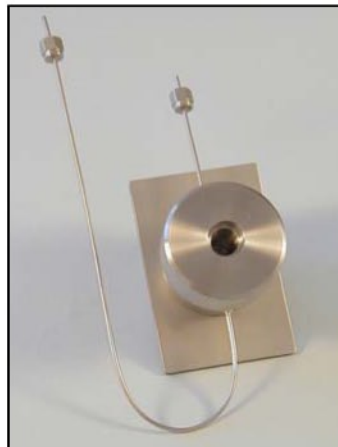
Temperature Controlled Demountable Liquid Cells are intended for examining liquids and mulls at temperatures ranging from -80°C to 260°C. Their leak-free design makes them suitable for static and flow operation. In addition, these 316 stainless steel cells feature high chemical resistance and readily 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)   |             |
|---|-------------|
| 6µ  | 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