

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	
0.2mm	
0.5mm	
1.0mm	
2.0mm and 3.0mm Set	
4.0mm and 5.0mm Set	

Windows	13x6 mm
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Spacers Sets (12 per package)	
6µm	
12µm	
25µm	
56µm	
100µm	
150µm	
250µm	
390µm	
500µm	
630µm	
750µm	
950µm	
Assorted Spacers	
one each: 6, 12, 25, 56, 100, 150, 250, 390, 500, 630, 750 and 950 µm	

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
 Temperature Controlled High Pressure Liquid Cell, 24V

OPTIONS AND REPLACEMENT PARTS

Viton O-Ring
 Kalrez O-Ring
 Temperature Controller, 110V input, 24V output. Includes USB adapter.
 Temperature Controller, 220/240V input, 24V output (CE marked). Includes USB adapter.