

Temperature Controlled Demountable Liquid Cells

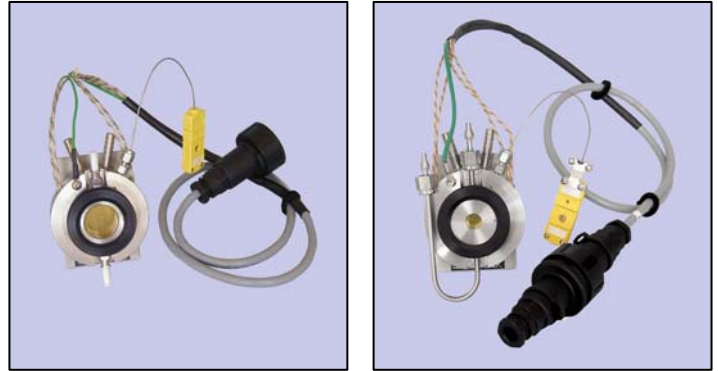
Temperature Controlled Demountable Liquid Cells are intended for examining liquids and mulls at temperatures ranging from -80°C to 260°C. Their leak-free design makes them suitable for static and flow operation. In addition, these 316 stainless steel cells feature high chemical resistance and readily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

APPLICATIONS

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

FEATURES

- ▶ Variable pathlength, from 6µm to 1mm.
- ▶ Heatable to 200°C with Viton o-rings or 260°C with optional Kalrez o-rings.
- ▶ Coolable to 0°C with suitable coolant, purge and o-rings.
- ▶ Flow-through cooling conduit stabilizes the cell temperature.
- ▶ Thermally isolated cell body prevents heat transfer to the spectrometer.
- ▶ Leak-free design utilizes standard, non-drilled windows.
- ▶ Easily disassembled for cleaning and window replacement.
- ▶ Two ports permit static or flow applications.
- ▶ Chemically inert 316 stainless steel cell with Luer Lok or 1/8" Swagelok™ fittings.
- ▶ Sample slide plate mounted for user convenience.
- ▶ Available with an 8mm or 20mm diameter open aperture.
- ▶ Maximum operating pressure with ZnSe windows
 - ▶ 4.5 MPa (660 psi) for the DLC-S13 (8 mm aperture).
 - ▶ 690 kPa (100 psi) for the DLC-S25 (20 mm aperture).
- ▶ Temperature controlled cells for operation at lower or higher temperatures available on special order.



INCLUDES

- ▶ Stainless steel cell body with Luer Lok or Swagelok™ fittings.
- ▶ Embedded K-type thermocouple, low-voltage cartridge heaters and cooling conduit.
- ▶ Viton o-rings.
- ▶ Slide plate mounting.
- ▶ A dozen PTFE spacers. One each for 6, 12, 25, 56, 100, 150, 250, 390, 500, 630, 750, and 950 µm pathlengths.
- ▶ Order windows separately.

ORDERING INFORMATION

8 mm aperture (13x2 mm windows) 20 mm aperture (25x2 mm windows)

Temperature Controlled Demountable Cells, 24V
Liquid Cell (Luer Lok fittings)
Flow Cell (Swagelok™ fittings)

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.