Temperature Controlled Transmission Cells

by Specac Inc. / Harrick Scientific

Temperature Controlled Demoutable Liquid Cells

Temperature Controlled Demountable Liquid Cells are intended for examining liquids and mulls at temperatures ranging from 0° C to 260° C. Their leak-free design makes them suitable for static and flow operations. In addition, theses 316 stainless steel cells feature high chemical resistance and readily exchanged pathlength spacers.

- Variable Pathlength, from 6µm to 1 mm.
- Heatable to 200 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 8 mm or 20mm diameter open aperture
- Maximum operating pressure with ZnSe windows:
  - 4.5 MPa (660 psi) for the TFC-3-S13 (8 mm aperture).
  - 690 kPa (100 psi) for the TFC-3-S25 (20 mm aperture).

Cell Options

Liquid Cell Order Information		
	8 mm aperture (13 x 2 mm windows)	**20 mm aperture (25 x 2 mm windows)**
Luer Lok fittings	HR-TFC-M13-3	HR-TFC-M25-3
Swagelok fittings	HR-TFC-S13-3	HR-TFC-S25-3
Temperature Controller		
220/240 V input, 24 V output. CE marked	HR-ATK-024-6	
Available Windows		
$Al2O_3$	HR-WBD-U22	--
CaF_2	HR-WFD-U22	HR-WFD-U25
ZnS	HR-WID-U22	HR-WID-U25
NaCl	HR-WLD-U22	HR-WLD-U25
ZnSe	HR-WMD-U22	HR-WMD-U25
KBr	HR-WPD-U22	HR-WPD-U25



Liquid Cell with Luer Fittings



Liquid Cell with Swagelok Fittings

Standard Cell Order Includes

- Stainless steel cell body
- Embedded K-type thermocouple, low-voltage cartridge heaters and cooling conduit.
- Viton O-Rings (measurements up to 200° C).
- Slide plate mounting
- Ten PTFE Spacers (one each 25 – 950 µm)

Windows and Temperature Controller to be ordered separately.

Quantum Design

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Options and Replacement Parts

Spacer Set (10 per Size)		
	8 mm aperture	**20 mm aperture**
6µ	HR-MSP-006-M13	HR-MSP-006-M25
25 µm	HR-MSP-025-M13	HR-MSP-025-M25
56 µm	HR-MSP-056-M13	HR-MSP-056-M25
100 µm	HR-MSP-100-M13	HR-MSP-100-M25
150 µm	HR-MSP-150-M13	HR-MSP-150-M25
250 µm	HR-MSP-250-M13	HR-MSP-250-M25
390 µm	HR-MSP-390-M13	HR-MSP-390-M25
500 µm	HR-MSP-500-M13	HR-MSP-500-M25
630 µm	HR-MSP-630-M13	HR-MSP-630-M25
750 µm	HR-MSP-750-M13	HR-MSP-750-M25
950 µm	HR-MSP-950-M13	HR-MSP-950-M25
Spacer Set		
	8 mm aperture	**20 mm aperture**
One each: 25, 56, 100, 150, 250, 390, 500, 630, 750 and 950 µm	HR-PSA-M13	HR-PSA-M25
Stainless Steel Spacers		
	Only for 8 mm aperture Cells	
0.1 mm	HR-HLP-M01	
0.2 mm	HR-HLP-M02	
0.5 mm	HR-HLP-M05	
1.0 mm	HR-HLP-M10	
O-Rings		
	8 mm aperture	**20 mm aperture**
Viton (FKM) (up to 200 °C)	HR-ORV-012	HR-ORV-020
Kalrez (FFKM) (up to 260 °C)	HR-ORK-012	HR-ORK-020

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