

LT-HP SERIES

HIGH PRESSURE LIQUID TRANSMISSION FLOW CELLS

Models LT-HP13, LT-HP13-T

Durasens™ LT-HP Series High Pressure Liquid Transmission Flow Cells are constructed from corrosion resistant 316 stainless steel and fitted with thick 13x6mm windows making them suitable for the analysis of liquid streams at high temperatures and pressures up to 5000 psi.

These heavy duty cells have a simple design featuring demountable windows and spacers for easy exchange or cleaning. The pathlength can be easily changed by substituting a spacer of the desired thickness. Spacers are available in a wide choice of materials and thicknesses. The LT-HP Series cells have round clear apertures of 8mm. A variety of window materials is available.

A temperature controlled version (Model LT-HP13-T) is also available. The temperature controlled version is a thermally insulated cell with an embedded K-type thermocouple, low voltage cartridge heaters, and a flow through cooling conduit.



Model LT-HP13-T

PRODUCT HIGHLIGHTS

- Heavy duty cells for pressures up to 5000 psi
- Demountable windows and spacers for easy exchange or cleaning
- Variety of spacer thicknesses, window and spacer materials
- Pathlength easily changed by changing the spacer
- 8mm diameter clear aperture
- Temperature controlled model available
- Maximum temperatures up to 260°C
- Compatible Automatic Temperature Controller available
- Cell mounts on a standard sample slide holder

SPECIFICATIONS

Body Material	316 Stainless Steel standard, other materials available
Fittings	1/8" Swagelok™ fittings standard, other fittings available
Window Material	BaF ₂ , CaF ₂ , ZnS, ZnSe, and others
Optical Pathlength	15µm -1000µm, depending on spacer thickness
Spacer Material	PTFE, Stainless Steel, other materials available
Wavelength Range	From UV to Far IR, depending on window material
Max Operating Temperature	200°C with Viton O-rings, 260°C with Kalrez O-rings
Max Operating Pressure	Up to 5000 psi depending on window material and operating temperature

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 PROCESS ANALYTICAL SOLUTIONS

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ORDERING INFORMATION

MODEL	DESCRIPTION
LT-HP13	High Pressure Transmission Flow Cell 13mm (8mm aperture, 13x6 mm windows)*
LT-HP13-T	Temperature Controlled High Pressure Transmission Flow Cell (8mm aperture, 13x6 mm windows)*
ATC-024-1	Automatic Temperature Controller (110V Input, 24V Output)
ATC-024-2	Automatic Temperature Controller (220V/240V Input, 24V Output)

* Includes 316 stainless steel cell body with Swagelok™ fittings, set of assorted pathlength PTFE spacers (6,12,25,65,100,150,250,500,630,750 and 950µm thick), Viton o-rings and window mounting hardware.

Windows are not included. Order windows separately (two per cell required).

WINDOWS

MATERIAL	13X6MM
BaF ₂	WBF-13-6
CaF ₂	WCF-13-6
ZnS	WZS-13-6
ZnSe	WZSE-13-6

O-RINGS

MATERIAL	13MM WINDOWS
Viton	ORV-012
Kalrez	ORK-012

PATHLENGTH SPACERS

PTFE SPACERS	FOR 13MM WINDOWS (SETS OF 10)
15µm thick	TSP -015-13
25µm thick	TSP -025-13
50µm thick	TSP -050-13
100µm thick	TSP -100-13
200µm thick	TSP -200-13
500µm thick	TSP -500-13
1000µm thick	TSP -000-13

STAINLESS STEEL SPACERS	FOR 13MM WINDOWS (1 EACH)
0.1mm thick	SSP-010-13
0.2mm thick	SSP-020-13
0.5mm thick	SSP-050-13
1.0mm thick	SSP-100-13
2.0mm and 3.0mm thick	SSP-200-13
4.0mm and 5.0mm thick	SSP-400-13