

LT-B SERIES

BASIC LIQUID TRANSMISSION FLOW CELLS

Models LT-B13, LT-B25, LT-B13-T, LT-B25-T

Durasens™ LT-B Series Liquid Transmission Flow Cells are reliable, field tested basic cells suitable for analyzing liquid streams using transmission spectroscopy. The sturdy 316 stainless steel construction and the availability of a wide variety of window materials and pathlengths makes these cells equally at home in the laboratory, pilot plant or manufacturing plant. The pathlength is easily changed by changing the spacer. The demountable design makes it easy to disassemble the cells for cleaning, or for the exchange of windows and pathlength spacers.

The LT-B Series cells are available with round clear apertures of 8mm (Model LT-B13) and 20mm (Model LT-B25). Both models are available in temperature controlled versions (Models LT-B13-T and LT-B25-T). The temperature controlled versions are thermally insulated cells with an embedded K-type thermocouple, low voltage cartridge heaters, and a flow through cooling conduit.



Model LT-B13-T

PRODUCT HIGHLIGHTS

- Reliable, stainless steel flow cells with swagelok fittings
- Demountable windows and spacers for easy exchange or cleaning
- Wide choice of window materials and pathlength spacers
- Pathlength easily changed by changing the spacer
- Available with 8mm or 20mm diameter clear apertures
- Temperature controlled models available
- Maximum temperature up to 260°C
- Compatible Automatic Temperature Controller available
- Standard sample slide holder mounting

SPECIFICATIONS

Body Material	316 Stainless Steel standard, other materials available
Fittings	1/8" Swagelok fittings standard, other fittings available
Window Material	Al ₂ O ₃ , BaF ₂ , CaF ₂ , KBr, NaCl, SiO ₂ , ZnS, ZnSe, and others
Optical Pathlength	15µm -1000µm, depending on spacer thickness
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

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 PROCESS ANALYTICAL SOLUTIONS

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ORDERING INFORMATION

MODEL	DESCRIPTION
LT-B13	Basic Transmission Flow Cell (8mm aperture, 13x2 mm windows)*
LT-B13-T	Temperature Controlled Basic Transmission Flow Cell (8mm aperture, 13x2 mm windows)*
LT-B25	Basic Transmission Flow Cell (20mm aperture, 25x2mm windows)*
LT-B25-T	Temperature Controlled Basic Transmission Flow Cell 25mm (20mm aperture, 25x2mm 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	13x2MM	25x2MM
Al ₂ O ₃	WAO-13-2	
BaF ₂	WBF-13-2	WBF-25-2
CaF ₂	WCF-13-2	WCF-25-2
KBr	WKB-13-2	WKB-25-2
NaCl	WNC-13-2	WNC-25-2
SiO ₂		WSO-25-2
ZnS	WZS-13-2	WZS-25-2
ZnSe	WZSE-13-2	WZSE-25-2

PATHLENGTH SPACERS

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

O-RINGS

MATERIAL	13MM WINDOWS	25MM WINDOWS
Viton	ORV -012	ORV -020
Kalrez	ORK -012	ORK -020