

LR-S SERIES

SINGLE REFLECTION ATR LIQUID FLOW CELLS

Models LR-S, LR-S-T

Durasens™ LR-SR Single Reflection ATR Flow Through Liquid Cells are designed for monitoring process streams of liquids that strongly absorb infrared radiation. The types of liquid streams that could be monitored include a broad range of water based solutions. These cells are constructed of 316 stainless steel and have 1/8" diameter in/out tubing. The standard ATR crystal material is ZnSe. All aspects of the cells such as cell body material or ATR crystal material can be customized for a specific application. For instance the in/out lines could be 1/8" 316 stainless steel tubing welded to the cell body. The straightforward optical configuration enables very high spectrometric efficiency. These cells are for use with any IR spectrometer.

The LR-SR Series cells are available in a temperature controlled version (Model LR-S-T). A low-voltage temperature controller is available separately.



Model LR-S

PRODUCT HIGHLIGHTS

- Single reflection ATR
- High spectrometric efficiency
- Exchangeable ATR crystal
- Choice of materials for ATR element, ZnSe standard
- Temperature controlled model available
- Maximum temperature up to 175°C
- Compatible Automatic Temperature Controller available
- Fits all standard FTIR spectrometers

SPECIFICATIONS

Body Material	316 Stainless Steel standard, other materials available
Fittings	1/8" Compression fittings standard, other fittings available
ATR Material	ZnSe standard, ZnS and Ge available
Number of Reflections	One
Wavelength Range	From 5000 to 550 cm^{-1}
Max Operating Temperature	200°C with Viton O-rings, 260°C with Kalrez O-rings
Max Operating Pressure	Up to 1000 psi

Durasens, LLC

141 Tompkins Ave, PO Box 277, Pleasantville, NY 10570
 T 914 747 7205 F 914-747-7209 E info@durasens.com
www.durasens.com

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 PROCESS ANALYTICAL SOLUTIONS

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ORDERING INFORMATION

MODEL	DESCRIPTION
LR-S	Single Reflection ATR Liquid Flow Through Cell
LR-S-T	Temperature Controlled Single Reflection ATR Liquid Flow Through Cell
ATC-024-1	Low-voltage Automatic Temperature Controller (110V Input, 24V Output)
ATC-024-2	Low-voltage Automatic Temperature Controller (220V/240V Input, 24V Output)

O-RINGS

MATERIAL SET OF 2

Viton	ORV - 023
Kalrez	ORK - 023