

LFT-200 Series Low Volume Gas Cells

LFT-200 gas cells employ a tubular, linear flow construction providing low volume, rapid sample exchange, and highly accurate overlap of the optical and gas volumes. The result is an absolutely fixed path length and highly stable calibrations.

Standard LFT-200 models employ gold coated reflecting optics and CaF₂ windows for optimum operation in the 1200-4000 cm⁻¹ spectral range. Other optical materials are also available to cover additional wavelength ranges or particularly corrosive gases. In addition, the cells can be provided with optional heating elements and insulating jackets for elevated temperature operation.

LFT cells are designed to mount in any FTIR sample compartment with conventional focused beam geometry. They include a pair of telescoping purge shrouds which seal the beam path within the open sample compartment. In addition, adapters are available for direct coupling to Axiom transfer optics.

Fiber-optic coupled versions of the LFT gas cells are also available for use in the near-IR spectral range. (See the FFT-200 Series data sheet.)

For more information, or to discuss your specific application, please do not hesitate to contact us at (949)757-9300 or visit us on the web at www.hellma-axiom.com.



FEATURES:

- Low Volume
- Fast response
- Negligible sample carryover
- Fixed, unambiguous path length
- Easy maintenance

LFT-200 SPECIFICATIONS:

	LFT-205	LFT-210	LFT-220
Path length (meters):	0.5	1.0	2.0
Cell Volume (ml):	25	50	100
Purge Volume (ml) ¹ :	30	60	120
Transmission (%):	30	15	6
Window Material ² :	CaF ₂		
Wetted Metals ³ :	Gold plated brass, 316 stainless steel		
Fittings:	1/8 NPT female ports		
Seals ³ :	Viton O-rings		
Max. Temperature ³ :	200° C		
Max. Pressure:	10 bar		

1. For 99% sample exchange. 2. Other window materials are available. 3. Optional materials of construction and seals are available for use with corrosive samples or higher temperatures.