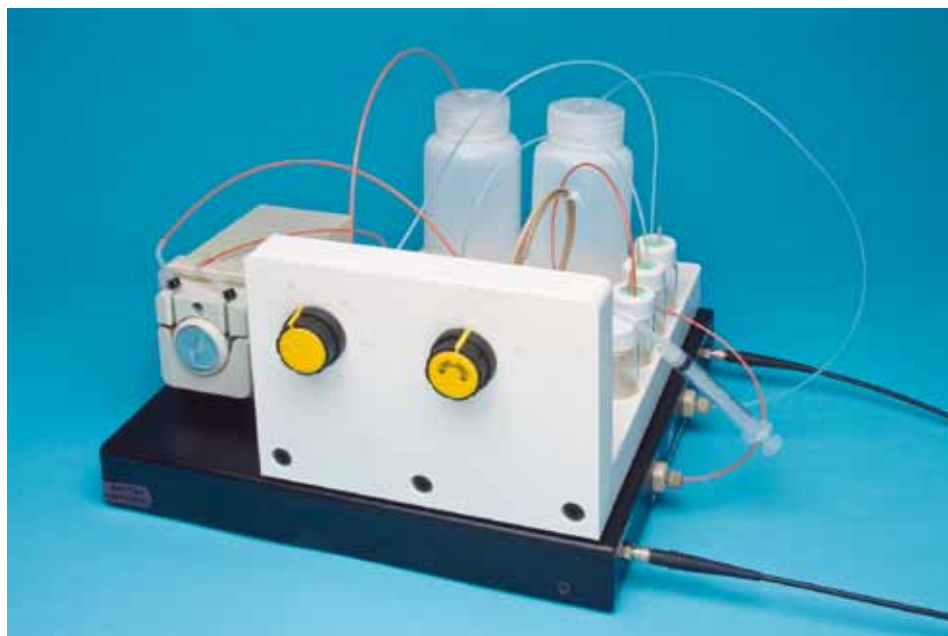




# 89372

## LWCC Injection System



- Efficient sample Injection at constant flow
- For use with WPI's LWCCs
- Minimize contamination and bubbles
- Constant flow rate
- Easy to clean
- Pump and LWCC not included

Using your Liquid Waveguide Capillary Cells (**LWCC**) just got easier. Get rid of the tiny bubbles and possible contaminants so common when injecting samples into the loop with other sample injection methods.

LWCCs are fiber optic cells that combine an increased optical pathlength with small sample volumes, and WPI offers a large variety. LWCCs can be connected via optical fibers to a spectrophotometer with fiber optic capabilities (TIDAS I). Ultra-sensitive absorbance measurements can be performed in the ultraviolet, visible and near-infrared to detect low sample concentrations in a laboratory or process control environment.

The LWCC Injection System (WPI

#89372), together with a pump and liquid waveguide capillary cell (LWCC), provides an efficient, continual flow for injecting a sample through an LWCC.

### Operation

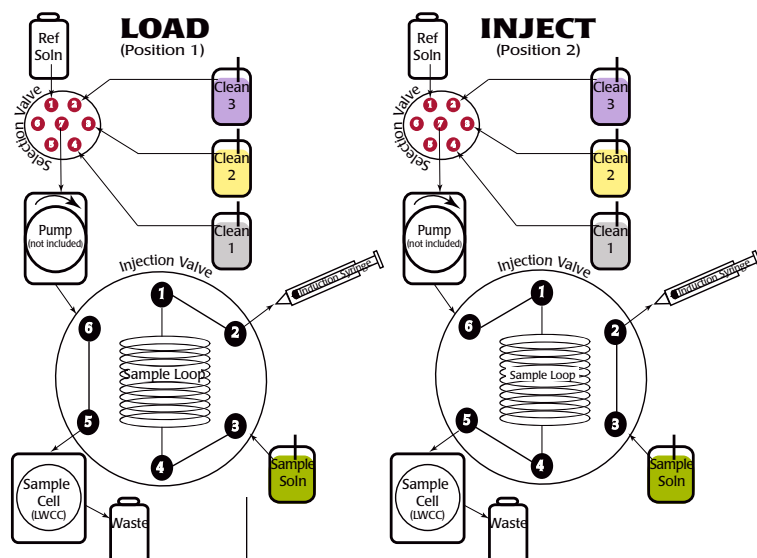
Two large reservoirs (one for reference solution and one for waste) and four vials (for cleaning solutions and sample) are provided. This ingenious system has two modes.

In Load mode the pump continually runs the selected solution (usually reference) through the sample cell only. In this mode the syringe can be used to draw sample solution into the sample loop, loading the sample loop so that it is ready for introduction into the fluid flow path.



# 89372

## LWCC Injection System



In inject mode the sample loop is included in the fluid flow path, and the pump pushes solution through the sample loop and the sample cell.

This injection system minimizes contamination and the formation of tiny bubbles that interfere with

spectroscopic data recording. The pump provides a constant flow rate and pressure for the sample delivery.

## Accessories

LWCCs with pathlengths from 2-500cm and internal volumes from 5-1250 L

3563	1 mL Plastic syringe
3744	10mL Plastic syringe
13106	20mL Glass scintillation vial
801433	250mL Plastic, wide-mouth, sample bottle
801434	20mL Plastic syringe
801435	3mL Plastic syringe
503122	Silicon tubing with stops, 1mm ID x 1mm wall x 1m (5pk) Mflex 14 for MINISTAR pump
501609	Waveguide Cleaning Kit
MINISTAR	Mini Peristaltic Pump

## SPECIFICATIONS

Wetted Materials	PEEK®, PFA®, Vespel®, Teflon®
Flow Speed	0-10mL/minute
Sample Loop Volume (tubing)	25-5,000mL (using 0.020" or 0.040" ID PEEK)
Tubing OD	0.0625"
Sample Injection Method	Induction syringe/peristaltic pump
Tubing ID	0.020" Orange PEEK 0.040" Natural PEEK
Fittings (Injection Valves)	1/4 - 28 Flangeless Fittings (Selection and 10 - 32 One-piece, finger-tight PEEK fitting)
Maximum Valve Operating Temperature	80°C

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