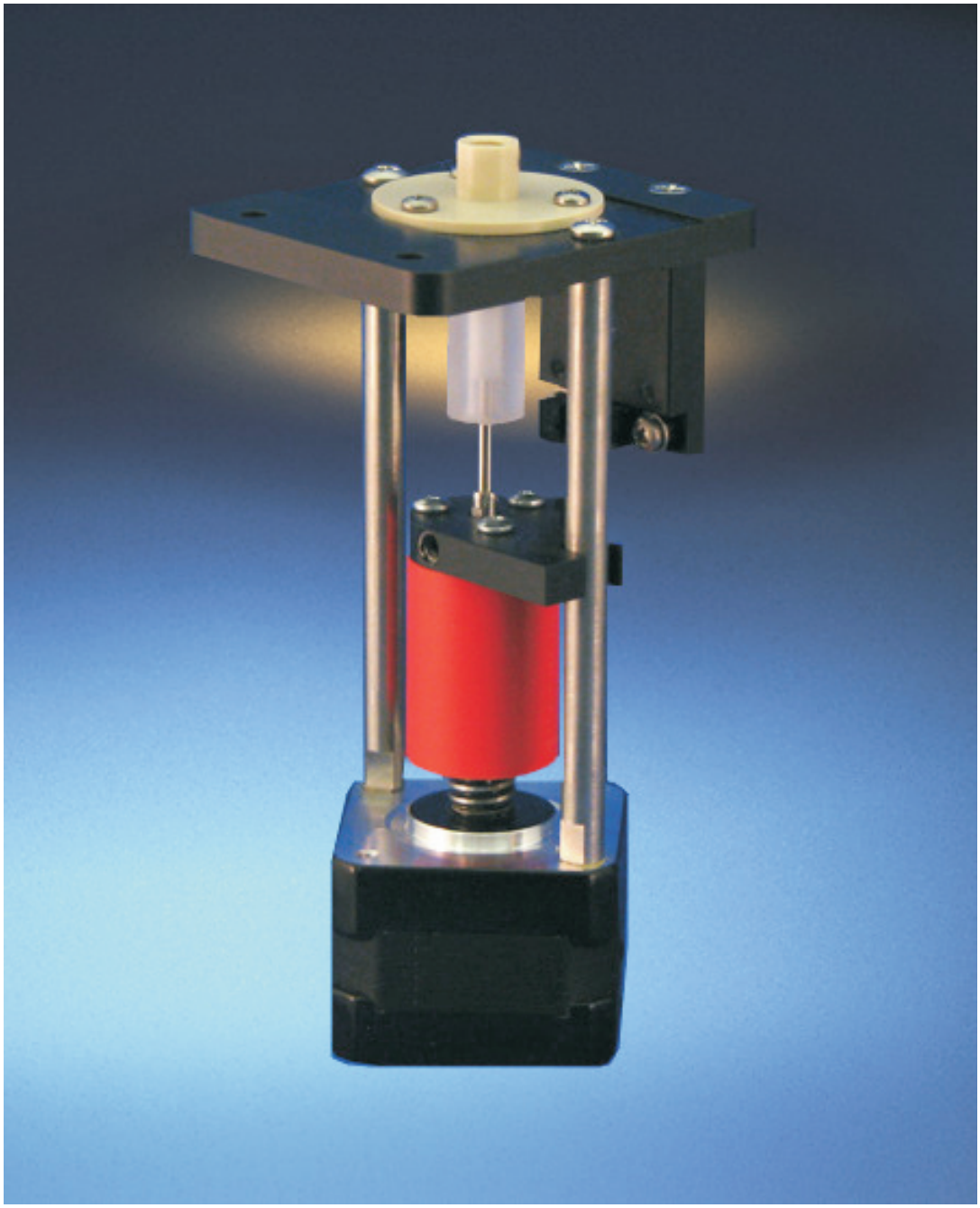
LT-Series Pump



TRICONTINENT™

HANDLING LIQUIDS...PRECISELY

The TriContinent LT Series of syringe pumps are specifically designed for long life and ZERO maintenance in most diagnostic applications. This rugged, compact package can be easily mounted anywhere in your instrument without regard to user access thereby freeing up valuable deck space.

Precision and accuracy rival much larger and complex syringe pumps that require expensive servicing and routine preventative maintenance schedules.

The LT Series starts with an electro-mechanical package held to tight tolerances to ensure optimum alignment of syringe. The UHMWPE syringe seals have been specifically created to provide unparalleled life. Every aspect of the LT Series pumps has been designed and tested to ensure trouble free performance for years of instrument usage.

The standard LT pumps can be enhanced with options that include valves, electronics and encoders.

Volume Displacement (nominal	**250 L Cat. # 386**	**500 L Cat. # 387**	**1.0 mL Cat. # 388**	**2.5 mL Cat. # 389**	**5.0 mL Cat. # 390**
Step Resolution	0.150 L/full step	0.300 L/full step	0.600 L/full step	1.500 L/full step	3.000 L/full step
Syringe Data					
Bore	.1721” (4.37 mm)	.2433” (6.18 mm)	.3446” (8.75 mm)	.5441” (13.82 mm)	.7694” (19.54 mm)
Stroke	.667” (16.93 mm)	.667” (16.93 mm)	.667” (16.93 mm)	.667” (16.93 mm)	.667” (16.93 mm)

Below data applies to all volumes.

Performance	
Imprecision	<0.05% (full stroke)
Inaccuracy	<1.0% (full stroke)
Dimensions (max.)	
Overall Width	2.12" (53.85 mm)
Overall Height	5.90" (149.86 mm)
Overall Depth	2.62" (66.55 mm)
Motor/Leadscrew Data	
Travel/step	.0004" (0.01 mm)
Step Angle	1.8 deg.
Resistance/phase	3.5 Ω
Inductance/phase	4.0 mH
Rated current	900 mA
Rated voltage	3.2 V*
Fluid Backpressure	5 PSI max.
Materials	PPS, Borosilicate Glass, UHMWPE, Viton®

*Pump should typically be driven with a 24 VDC bipolar chopper drive, ½ step, at rated current. Higher voltage may be required at higher step rates.

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