NEW
PRODUCTS &
FEATURES

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LP500

Precision Fluid Handling for Laboratories



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LP500

Precision Fluid Handling for Laboratories

Engineered for excellence. With advanced digital control, quick-change design, and durable components, the **LP500** variable speed peristaltic pump ensures smooth, precise operation every time. It's the ultimate solution for labs that demand accuracy and efficiency.



UNMATCHED ACCURACY

Digitally controlled speed accuracy up to 0.2% ensures precise dosing and filling for critical lab processes, reducing waste and improving reproducibility.

CLEAN. FAST. RELIABLE.

Quick, hassle-free tube loading along with backflow prevention features minimize downtime, keeping your process on track.

POWER THAT LASTS

A high-performance stepper motor ensures precise speed control and extended operational life, reducing wear and maintenance for consistent, long-term reliability.

PRECISE EFFICIENT RELIABLE

PERFORMANCE YOU CAN COUNT ON

YOUR BENEFITS

Precision You Can Trust

- Digital speed control ensures dosing accuracy within 0.2%
- Reduces waste and improves reproducibility for critical lab processes

Efficiency That Saves Time

- Quick tube loading minimizes downtime
- Backflow prevention keeps operations smooth and reliable

Durability for Long-Term Use

- High-performance stepper motor extends operational life
- Lower maintenance needs for consistent performance



1. USER-FRIENDLY INTERFACE
Simple interface with digital display and keypad for quick speed, flow direction, and start/stop adjustments.

2. QUIET OPERATION
Ensures a quite laboratory environment

3. TAILORED PERFORMANCE
Available in two configurations: LP500-L (low flow) and LP500-H (high flow)

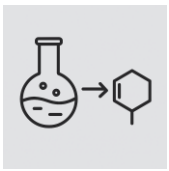
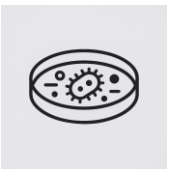
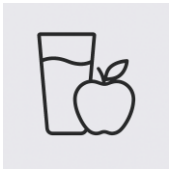
4. SOFT START & STOP
Minimizes downtime due to premature wear & tear

5. EXTERNAL CONTROL
Allows remote control via RS485, o 0-20ma for integration with DeltaV & other controllers

6. INNOVATIVE TUBE HOLDERS & OCCLUSION DESIGN
No tube adjustments required

7. EASY HEAD REPLACEMENT
Tool-free pump head change for easy maintenance

APPLICATIONS

LAB	DENSITIY GRADIENT TUBE FILLING	CHEMICAL SYNTHESIS REACTIONS	BACTERIAL / CELL CULTURE	FOOD & BEVERAGE
				

TECHNICAL DATA

PARAMETER	UNIT	LP500-L Low Flow Configuration		LP500-H High Flow Configuration	
Compatible tubing					
Material		Silicone			
Wall-Thickness	mm (inches)	1.6 (1/16)			
Bore Sizes (ID)	mm (inches)	3.2 (1/8)	4.8 (3/16)	6.4 (1/4)	8.0 (5/16)
Flow Rates					
100rpm	mL/min	100	219	310	494
300rpm	mL/min	290	608	876	1188
600rpm	mL/min	559	1170	1569	1955
Motor speed adjustment range	rpm	0.1-600			
Duty Cycle	rpm	Continuous up to 400 rpm			
Max continuous system pressure	bar	0.3			
Operating modes		Internal control, external control, timing, level 1, level 2			
Voltage	VAC	100-240			
Frequency	Hz	50/60			
Ambient temperature	°C (°F)	0-40 (32-104)			
Drive IP rating	IP	31			
Weight	kg (lbs)	4.4 (9.69)			
Dimensions L x W x H	mm (inches)	316x180x197 (12.44x7.09x7.76)			

ORDERING INFORMATION

DESCRIPTION	PART NO.
LP500 Drive with Pump Head – Low Flow Configuration (LP500L)	5501-01
LP500 Drive with Pump Head – High Flow Configuration (LP500H)	5502-01
ETL500 Pump Head - Low Flow Configuration	5501K-01
ETL500 Pump Head - High Flow Configuration	5502K-01
Platinum Cured Silicone Tubing 3.2mm ID x 1.6mm wall thickness; Length 15m	5500KT-03
Platinum Cured Silicone Tubing 4.8mm ID x 1.6mm wall thickness; Length 15m	5500KT-04
Platinum Cured Silicone Tubing 6.4mm ID x 1.6mm wall thickness; Length 15m	5500KT-06
Platinum Cured Silicone Tubing 8.0mm ID x 1.6mm wall thickness; Length 15m	5500KT-08