

# MICROLAB® 500 SERIES DISPENSERS



ML501A Dispenser



ML510B Dispenser



ML504A Dispenser



ML540B Dispenser

## Dispense Reagents Easily

- Simplify reagent dispensing and aliquot transfer
- Reduce reagent and solvent consumption
- Eliminate technician-to-technician method variability

Hamilton MICROLAB® 500 series dispensers are perfect for performing simple dispenses. The dispensers will accurately and precisely aspirate and dispense fluid at the touch of a hand probe button or the tap of a foot switch. Achieve certified accuracy within  $\pm 1\%$  and precision within  $+ 0.2\%$ , traceable to N.I.S.T.

The **ML501A Single Syringe** and **ML504A Dual Syringe** models are designed as simple dispensers where the volume filled into the syringe is the volume dispensed. They are inexpensive and yet meet the demands for accurate dispensers. Method setup and modification is quick and easy. The method is retained as long as there is power to the instrument.

The **ML510B Single Syringe** and **ML540B Dual Syringe** models allow you to program to a 21 method memory simple dispenses, aliquot dispenses, serial dispenses, pipetting and titrations. You can save the reagent in the fluid path by returning to the reagent reservoir. Add the printer to simplify compliance to method documentation requirements for regulations and standards, such as those of the EPA, FDA (GMP, GLP) and ISO.

The ML500 series dispensers can simplify liquid handling tasks in a wide range of applications in a variety of markets, such as: analytical/environmental, drug discovery, proteomics, genomics, forensics and biotech.



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## Specifications for the MICROLAB<sup>®</sup> 500 Series Dispensers

	ML501A/ML504A	ML510B/ML540B
Accuracy	Within ± 1%	Within ± 1%
Precision	Within + 0.2%	Within + 0.2%
Resolution	0.1% of syringe volume	0.1% of syringe volume
Volume increment	0.1% to 100% of total syringe volume	0.1% to 100% of total syringe volume
Speed	2 to 20 seconds per full syringe	1 to 250 seconds per full syringe
Syringe Drive Mechanism	Stepper motor driven high precision lead screw with encoder	Stepper motor driven high precision lead screw with encoder
Power Requirements	100-240VAC; 50-60Hz	100-240VAC; 50-60Hz
Power Rating	80 VA	80 VA
Program Memory	One method retained while power is on	Twenty-one methods to memory
Communication Interface	MICROLAB500A controller only	MICROLAB 500B controller, RS232
Baud Rate	Factory set	1,200 - 38,400 selectable
Weight	10 lbs 6 oz (4.7 Kg)	10 lbs 6 oz (4.7 Kg)
Height	13 1/8" (33.34 cm)	13 1/8" (33.34 cm)
Width	13 1/8" (33.34 cm)	13 1/8" (33.34 cm)
Depth	7" (17.78 cm)	7" (17.78 cm)
Fluid Path	CTFE/PTFE and borosilicate glass	CTFE, PTFE and borosilicate glass
Shipping Weight	20 lbs (9.07 Kg)	20 lbs (9.07 Kg)
Certifications	CE, CSA, TUV/GS	CE, CSA, TUV/GS

All MICROLAB500 Dispensers are shipped from the factory fully tested, traceable to N.I.S.T. standards and are available in 115V or 220V.

Hamilton Dispensers include:

	ML501A	ML504A	ML510B	ML540B
Drive Unit	Part # 35895	Part # 35897	Part # 35890	Part # 35892
Controller Unit	Part # 35894A	Part # 35894A	Part # 35893	Part # 35893
Concorde Hand Probe	Part # 35529	N/A	Part # 35529	N/A
Dual Push-button Hand Probe	N/A	Part # 35767	N/A	Part # 35767
Tubing Kit*	Part # 35887	Part # 35887	Part # 35887	Part # 35887
Dispenser Valve	Part # 35825	Part # 35842	Part # 35825	Part # 35842
Small Parts Kit	Part # 35888	Part # 35888	Part # 35888	Part # 35888
1001TLLX 1 mL Syringe	Part # 81323	Part # 81323(2 syringes)	Part # 81323	Part # 81323(2 syringes)
User's Manual	Part # 69175	Part # 69175	Part # 69176	Part # 69176
Power Cord	All dispensers use Part # 3892-05 (115V) or 355010 (220V)			

\* Tubing kit includes two sets of tubing in 12 and 18 gauges. Each set has 2 fill and 2 dispense tubing. Dual Syringe models have two kits. Configurations subject to change without notice.

Trademarks: The following is a trademark of Hamilton Company  
MICROLAB<sup>®</sup>



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THE MEASURE OF EXCELLENCE

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