

ELx50™ Microplate Strip Washer

The ELx50™ Microplate Strip Washer's compact footprint conceals a powerhouse of washing capabilities unsurpassed in its class. Exceptional dispense precision and evacuation efficiency can be utilized for both 96- and 384-well strip and plate washing.

Multiple Washers in One

The ELx50 is a 3-in-1 solution for 96-well plate formats automating the wash steps of ELISAs, magnetic bead assays and polystyrene bead assays. The ELx50 can also be equipped with BioTek's Dual-Action™ manifold allowing independent control of dispense and aspiration manifolds

in both 96- and 384-well formats. As a welcome upgrade from manual processing, the ELx50 provides an all-inclusive wash solution offering consistent performance and unattended operation.

Syringe Drive Fluid Delivery

As a self-contained and programmable washer, the ELx50 allows for complete control of precise fluidic delivery from the gentle dripping of a simple squeeze bottle to the full force of pressure delivery systems. Comprehensive onboard software makes creating protocols quick and intuitive.

Automated Liquid Level Sensing

Liquid Level Alert™ allows the convenience of continuous monitoring for both supply and waste bottles. At the beginning and end of a wash protocol, the liquid level is verified to ensure an adequate buffer remains to complete a wash. Sufficient storage capacity in the waste bottle is also verified.



Typical Applications:

- ▶ ELISAs
- ▶ Cell-based assays
- ▶ Magnetic bead assays
- ▶ Polystyrene bead assays
- ▶ ELISPOT assays
- ▶ Multiplex assays

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Specifications

General	
Assays	ELISA Cell-based assays Magnetic bead, polystyrene bead (model dependent) <ul style="list-style-type: none"> • Multiplex assays • Bead-based ELISA Filtration-to-waste processes (model dependent) Protein arrays
Separation	Biomagnetic separation, vacuum filtration (model dependent)
Microplate types	96- and 384-well plates (model dependent) Low profile and standard height Solid and filter bottom (model dependent) <ul style="list-style-type: none"> • Filter pore sizes 0.45 µm to 1.2 µm
Shaking	Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second)
Soak time	Programmable in minutes and seconds up to 60 minutes
Magnet	High strength 96-well format Flat <ul style="list-style-type: none"> • Flat-bottom well - beads pulled to band across well bottom • Round-bottom well - beads pulled to button at well bottom Ring - beads pulled to 4-zone ring at well bottom
Safety/convenience/maintenance	Waste sensing, fluid detection (optional) Aerosol cover Overflow protection Pre-programmed maintenance routines
Onboard software	Create, edit or run multiple protocols
Washing	
Manifold types	96-well washing: 8-tube (1x8) manifold 12-tube (1x12) manifold 96-/384-well washing: Dual-Action 16-tube (1x16) manifold
Washing speed	Solid bottom plates: 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: ≤130 seconds Filter bottom plates: Variable, based on wash parameters

Fluid delivery	One positive displacement syringe drive
Vacuum filtration	Selectable vacuum levels (final at 30 seconds): 0.45 µm 96-well plates: Low -91 mmHg Medium -150 mmHg High -313 mmHg 1.2 µm 96-well plates: Low -95 mmHg Medium -155 mmHg High -299 mmHg Vacuum filtration time range: 1 - 180 seconds
Volume range	25 - 3,000 µL/well (configuration dependent) Selectable in 1 µL increments
Buffer selection	Automatic switching for up to 3 wash buffers (configuration dependent)
Flow rates	1 - 9
Wash cycles	1 - 10
Dispense precision	≤3% CV
Residual volume	Solid bottom plates: ≤2 µL/well Filter bottom plates: Average increase weight of plate ≤1.2 g after dispensing 300 µL to 0.45 µm plate, filtration 30 seconds, low vacuum, blotted
Sterilization	Chemical: 70% ethyl or isopropyl alcohol and 0.5% sodium hypochlorite solution
Supply bottle	2 L
Physical Characteristics	
Power	100 - 240 Volts AC. 50/60 Hz.
Dimensions	14"W x 16"D x 6.5"H (35.6 x 40.6 x 16.5 cm)
Weight	22 lbs (9.8 kg)
Regulatory	
Regulatory	CE and TUV marked. ROHS compliant. In Vitro Diagnostic use models are available.

Specifications subject to change. Performance values represent the average observed-factory test values.