## ELx405™ Microplate Washer

The ELx405 Microplate Washer has set the standard in microplate washing based on its superior performance and reliability. This fourth generation product offers several models and options for processing 384- and 96-well microplates to meet all throughput requirements. The unique patent-pending Ultrasonic Advantage™ option eliminates the number one cause of assay failure - clogged manifold tubes. Valuable time is saved with this automated maintenance capability. All ELx405 Models are available in configurations supporting biomagnetic separation. BioTek's newest ELx405 enhancement offers full plate washing of magnetic microspheres used in a growing number of multiplex assays and bead-based ELISAs.

Programming the ELx405 is easy through its simple keypad interface. For those who prefer the advantages of running instruments via computer control, the ELx405 can be controlled with BioTek's optional Liquid Handling Control™ Software. The optional BioStack™ is available for walk-away automation of up to 50 standard height microplates.



ELx405 HT

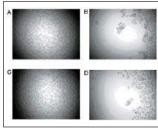


 Fluid detection, fluid flow and vacuum sensors provide complete protection during

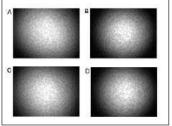
unattended operations



## Enhanced Cell Washing:



Before (A/C) and after (B/D) washing two wells containing HEK cells using a standard dispense rate.



Before (A/C) and after (B/D) washing two wells containing HEK cells using an ELx405 Select CW low flow dispense rate.

	Part #	96- well only	96- /384- well	384- well only	Cell wash- ing	Wash buffer switch	Ultra Adv	Mag bead
ELx405 <sup>™</sup>	ELX405R	•						
	ELX405RM	•						•
	ELX405RS	•					•	
	ELX405RSM	•					•	•
	ELX405VR	•				•		
	ELX405VRS	•				•	•	
	ELX405VRSM	•				•	•	•
ELx405 <sup>™</sup> Select	ELX405U		•					
	ELX405UM		•					•
	ELX405UV		•			•		
	ELX405US		•				•	
	ELX405UVS		•			•	•	
	ELX405UCW		•		•			
	ELX405UCWS		•		•		•	
	ELX405UCWVS		•		•	•	•	
	ELX405UCWVSM		•		•	•	•	•
ELx405 <sup>™</sup> HT	ELX405HT			•				
	ELX405HTM			•				•
	ELX405HTS			•			•	
	ELX405HTV			•		•		
	ELX405HTVS			•		•	•	
	ELX405HT2		•					
	ELX405HT2S		•				•	
	ELX405HTV2		•			•		
	ELX405HTV2S		•			•	•	
	ELX405HTV2SM		•			•	•	•

## Optional Accessories:

- Magnets Choice of 384- or 96-well formats
- Dispense/Waste Systems choice of 4L or 10L bottles, standard or high flow vacuum pumps, and 115V or 230V configurations
- Direct Drain Waste System
- Product Qualification Package
- BioStack Microplate Stacker
- Liquid Handling Control™ PC Software



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## Specifications:

Assays: Magnetic bead

Multiplex assays Bead-based ELISAs

ELISA

Microplate Types: 384- and 96-well (model dependent)

Standard height and low profile

Magnetic Field: 384-well separation

4,300 gauss 96-well separation

6,800 gauss

Manifold Type: 384-well washing -

Dual-Action<sup>TM</sup> 192-tube (16x12)

384-/96-well washing -

Dual-Action™ 96-tube (8x12)

96-well washing-96-tube (8x12)

Washing Speed: 384-well (192-tube manifold)

<20 sec: 1 asp./disp. cycle, 400 μL/well 96-well (96-tube manifold) -

<30 sec: 3 asp./disp. cycles, 300 μL/well

Wash Cycles: 1-10

Volume Range: 25 to 3000 µL/well (ELx405 HT)
Fluid Delivery: Internal positive displacement pump

Buffer Selection: Optional switching of up to 4 wash

buffers

Dispense Precision:  $\leq$  3% CV Residual Volume:  $\leq$  2  $\mu$ L/well

Onboard Software: 2x24 character LCD display

Create, edit or run up to 75 protocols Multiple pre-programmed maintenance

protocols

PC Software: Optional LHC™ PC Software

Optional Interface Software for robotic

system integration

Soak Time: 1 to 600 seconds

Shaking: User-programmable speeds and timing

Sterilization: Chemical

Dimensions: Depth: 17" (43.2 cm)

Width: 14" (35.6 cm) Height: 10" (25.4 cm)

Weight: 30 lbs (13.5 kg)

Power: Compatible with 100 to 240  $V_{\sim} \pm 10\%$ 

at 50-60 Hz

\*Specifications subject to change

Notes: All models with buffer switching include Dispense System. Only Waste System and vacuum pump should be ordered separately.

High flow vacuum pump recommended for 384-well washing with buffers not containing surfacant.

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