

EL406™ Washer Dispenser

The EL406™ Washer Dispenser offers fast, full plate washing along with three reagent dispensers in one, compact instrument. Its multiple capabilities include washing and dispensing for standard assays, plus biomagnetic separation and vacuum filtration protocols. The Dual-Action™ manifold optimizes washing for loosely adherent cell monolayers, while the patented Ultrasonic Advantage™ helps prevent blockages in the manifold tubes before washing, to reduce assay failure. Syringe pump and peristaltic pump dispensers each offer unique advantages, and the EL406 offers both, along with

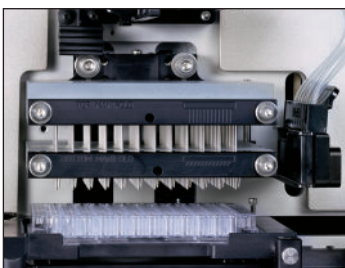
superior plate washing, on a single platform - making the EL406 a workhorse for your laboratory.

EL406 is easily integrated to BioTek's BioSpa™ 8 Automated Incubator to automate critical sample preparation steps like media exchange in a fully automated imaging workflow including BioTek's Cytation™ Cell Imaging Multi-Mode Readers. BioStack™ Microplate Stacker and third party automation compatibility adds to the unique versatility of the EL406.



Features:

- Fast microplate washing and dispensing
- Up to three reagent dispensers
- 96-, 384-, and 1536-well microplates
- Magnetic and polystyrene bead assays
- ELISAs and cell-based assays
- Filtration-to-waste processes
- Built-in ultrasonic cleaner
- Automated switching of up to four wash buffers or reagents
- BioSpa 8 Automated Incubator compatible for assay automation
- BioStack compatible - to automate processes for up to 50 plates



For 96- and 384-well washing, BioTek's Dual-Action™ 96- and 192-tube manifolds provide independent control of aspirate and dispense functions for precise control of all washing parameters.

Configurations:

- 96-well Washer with 1, 2 or 3 Reagent Dispensers
- 384-well Washer with 1 or 3 Reagent Dispensers
- 96-/384-well Washer with 1 or 3 Reagent Dispensers
- 1536-well Washer with 2 or 3 Reagent Dispensers
- 384-/1536-well Washer with 3 Reagent Dispensers
- 96-/384-/1536-well Washer with 3 Reagent Dispensers

See Web Site for complete list of configurations and descriptions.

Optional Accessories:

- Magnet Adapter Kit
- Magnets – choice of 96- or 384-well formats and immobilization patterns
- Vacuum Filtration Module
- Cassettes for peristaltic pump dispenser
- Automatic Reagent Switching for 2 syringe pump dispensers
- Waste System – many options available
- Product Qualification Package
- BioStack™ Microplate Stacker
- BioSpa™ 8 Automated Incubator
- Liquid Handling Control™ PC Software



EL406 integrated with BioSpa 8 Automated Incubator and Cytation Cell Imaging Multi-Mode Reader.



The EL406 is Luminex xMAP® approved.
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BioTek Instruments, Inc.
Highland Park, P.O. Box 998
Winooski, Vermont 05404-0998, USA

Phone: 802-655-4040 • Toll-Free: 888-451-5171
Outside the USA: 802-655-4740
www.biotek.com

Technical Details:

General

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|------------------------------|--|
| Microplate types: | 96-, 384- and 1536-well Low profile and standard height Solid and filter bottom (option) |
| Onboard software: | Create, edit or run multiple protocols |
| Software (computer control): | LHC2 Software LHC2 Secure for 21 CFR Part 11 compliance (option) SiLA Compliant driver (option) |
| Separation: | Biomagnetic separation, vacuum filtration (optional) |
| Shaking: | Programmable up to 60 minutes Slow, medium, fast or variable |
| Soaking: | Programmable up to 60 minutes |
| Automation: | Standard on most configurations BioStack and 3rd party automation compatible BioSpa 8 Automated Incubator compatible |
| Sterilization: | Autoclavable or chemical (configuration dependent) |

Washing

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| Manifold types: | 96- tube manifold for 96- and 384-well washing 192-tube manifold for faster 384-well washing 32-tube manifold for 1536-well washing |
| Volume range: | 3 - 3,000 µL/well in 1 µL increments |
| Wash cycles: | 1 - 250 |
| Buffer/reagent selection: | Auto switching module for up to 4 buffers (option) |
| Supply bottle: | 4 L or 10 L (optional) |
| Dispense accuracy: | ≤3% |
| Dispense precision: | <3% CV (configuration dependent) |
| Residual volume: | ≤2 µL/well |
| Wash speed: | 96 wells, 300 µL/well, 96-tube manifold: 13 seconds 384 wells, 100 µL/well, 192-tube manifold: 17 seconds 1536 wells, 10 µL/well, two 32-tube manifolds: 36 seconds |
| Flow rates: | High to low flow, optimizable for cell assays |

Dispensing – Peristaltic Pump (Multi-Channel)

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| Manifold types | 8-tip cassette with plastic, 316 SS tubes or sapphire jeweled 316 SS tubes |
| Fluid delivery | 1 peristaltic pump |
| Dispense speed | 96 wells, 10 µL /well: 8 seconds 384 wells, 5 µL /well: 12 seconds 1536 wells, 1 µL /well: 27 seconds |
| Volume range | 500 nL - 3,000 µL/well, selectable in 1 µL increments |
| Flow rates | User programmable rates from high to low Optimized rates for cell assays |
| Dispense performance: | <u>1 µL cassette:</u> Dispense Accuracy: ±5% at 1 µL Dispense Precision: ≤5% CV at 1 µL <10% CV at 500 nL <u>5 µL cassette:</u> Dispense Accuracy: ±2.0% at 5 µL Dispense Precision: ≤2.5% CV at 5 µL <u>10 µL cassette:</u> Dispense Accuracy: ±2.0% at 10 µL Dispense Precision: ≤2.0% CV at 10 µL |
| Sterilization | Autoclave, chemical |

Dispensing – Syringe Pump

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| Dispense speed: | 20 µL /well, 96 wells, 1 x 16 tubes: 5.25 seconds 20 µL /well, 384 wells, 1 x 16 tubes: 14 seconds 3 µL /well 1536 wells, 2 x 32 tubes: 7 seconds |
| Volume range: | 3 - 3,000 µL/well, selectable in 1 µL increments |
| Minimum prime volume: | 12 mL |
| Flow rates: | User programmable rates from high to low |
| Dispense accuracy: | ±1 µL at 5 µL ±1 µL at 20 µL ±1% at 100 µL |
| Dispense precision: | ≤5% CV at 5 µL ≤2.5% CV at 20 µL ≤1% CV at 100 µL |
| Supply bottle: | 1 L or 2 L |

Physical Characteristics

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| Power: | 100 – 240 Volts AC. 50/60 Hz |
| Dimensions: | 16.5" W x 18" D x 12.5" H (42 x 46 x 32 cm) |
| Weight: | 32 lbs (14.5 kg) |

Regulatory

For In Vitro Diagnostic use. CE and TUV marked, RoHS compliant.

Technical details are subject to change.