Liquid Handling Solutions

Microplate Washers

ELx50™ Auto Strip Washer

Bio-Tek's recognized leadership in full-plate microplate washers extends to the ELx50™ Auto Strip Washer. The ELx50's compact footprint contains a powerhouse of washing capabilities unsurpassed in its class. Excellent dispense accuracy and evacuation efficiency are ensured in models to support 96- and 384-well strip or plate washing. Extensive but easy-to-use onboard software provides the utmost flexibility for a variety of applications.

96/384

Features

- Syringe drive fluid-delivery system for precise control over multiple fluid flow rates
- Patented Dual-Action™ manifold washes both 96- and 384-well plates precisely (16-channel model)
- Unique priming trough built into removable microplate carrier for effortless priming and easy maintenance
- Automatic buffer switching for up to three buffers (V models)

Applications

- ELISA
- Cell-based assays

Optional Accessories

8-channel, short-dispense tube manifold
Validation Package

Configurations

ELx50: Available with 8-, 12- and 16-channel manifolds, each with optimal buffer switching. See price list for details.

Specifications

Microplate Types:
384- or 96-well flat-bottom plates or strips

Processing Speed:
< 130 secs (3 cycles, 300 µl/well, 96 wells)

Wash Cycles: 1-10

Volume Range: 25 to 3000 µl/well

Fluid Delivery:
Internal positive displacement syringe pump

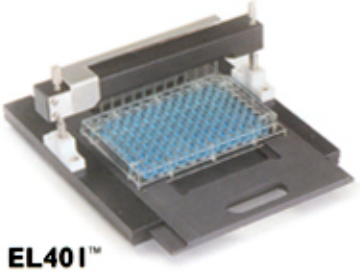
Dispense Precision:
< 2% CV (8-, 12-channel) typical
< 2.5% CV (16-channel) typical

Residual Volume:
< 1 µl/well (8-, 12-channel) typical
< 0.5 µl/well (16-channel) typical

Manifold:
16-channel patented Dual-Action™ manifold, with separate dispense/aspiration (16-well)
8-channel, 12-channel

Regulatory Compliance:
Meets EU in vitro Diagnostic Directive (IVD-D)
All Bio-Tek microplate instrumentation is CE and safety marked

Detailed specifications can be found at www.biotek.com



EL401™ Manual Washer

The EL401™ takes manual strip and plate washing one step further by providing a user-controlled manifold for more accurate dispensing.

Features

- 5 wash/aspirate cycles in 5 seconds, one row at a time
- User-controlled fill volumes with convenient finger-controlled valve
- Efficient design guarantees 6 microliters maximum residue/well
- Overflow protection for safety
- Continuous aspiration
- All chemically resistant coatings and materials; readily cleaned and completely autoclavable

Applications

- ELISA assays
- Cell-based assays

Optional Accessories

Alignment assembly
8-channel microplate washer manifold
12-channel microplate washer manifold
Accessory kit with vacuum pump
Accessory kit without vacuum pump

Models

EL401: Manual Washer

Specifications

Microplate Types:
All 96-well plates, 1 x 8 strips or 1 x 12 strips

Fluid Delivery:
Gravity-Fed

Residual Volume:
< 5 µl/well typical

Manifold:
8-channel, 12-channel

Supply Bottle Volume
5 gal. carboy (optional)

Detailed specifications can be found at www.biotek.com

96

Microplate Reagent Dispensers

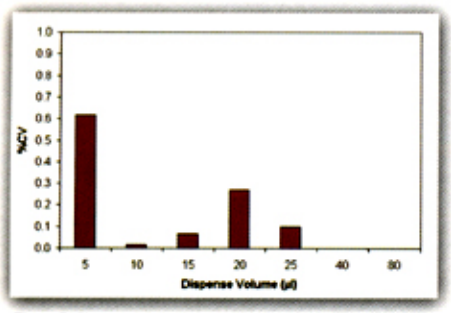
µFill™
Microplate Reagent Dispenser

The µFill™ offers an economical, compact and reliable alternative to existing bulk reagent dispensers. The microprocessor-controlled syringe pump provides accurate and precise dispensing without the time-consuming recalibration, cassette replacement and maintenance commonly associated with other dispensers available today. Autoclavability of the entire fluid path is available for those applications requiring sterility. User-controlled dispense flow rates allow low- to high-velocity dispensing for both biochemical and cell-based assays.

Features

- Robot-compatible carrier accommodates 24-, 96- and 384- standard and deep-well microplates
- Microprocessor-controlled syringe pump guarantees optimal precision and accuracy
- No calibration required
- Up to 75 programs stored in multiple languages at the touch of a button
- Built-in maintenance routines

µFill Dispense Precision in 384-Well Plates



The µFill™ repeatedly delivers a range of reagents with typical CVs less than 1% from 5µl.

Applications

- Cell-based assays
- EIAs/ELISAs
- Diluent dispensing for sample dilutions

Optional Accessories

Priming trough draining set

Manifold for 96-well PCR and Half-Area microplates

Manifold for 24-well microplates

Organic solvent tubing set

Validation Package

Configurations

µFill: 24-, 96-, 384-well plates, 5-6000 µl/well

µFill Autoclavable: 24-, 96-, 384-well plates, 5-6000 µl/well and autoclavable fluid path for guaranteed sterility

Specifications

Microplate Types:
96- and 384-well standard microplates, deep-well blocks and 1.2 ml test tubes, 96-well Half-Area and PCR microplates, 24-well microplates

Processing Speed:
20 µl into 384-wells = 12 seconds
20 µl into 96-wells = 4 seconds

Volume Range:
384 wells: 5 to 1500 µl per well
96 wells: 10 to 3000 µl per well
24 wells: 20 to 6000 µl per well

Fluid Delivery:
Microprocessor-controlled syringe pump

Dispense Accuracy:
1% at 80 µl typical

Dispense Precision:
1.5% CV at 80 µl typical

Manifold:
16 channels for both standard and deep-well 96- and 384-well microplates, 8 channels for 96-well Half-Area microplates, 96-well PCR microplates and 24-well microplates

Sterilization:
- Autoclavable fluid path: Manifold tubing, check valves, syringe cylinder and piston easily removable for steam autoclaving
- Compatible with 134°C and 216 kPa cycles

Chemical Compatibility:
Organic solvents: Dimethylsulfoxide (DMSO), Acetonitrile

Onboard Software:
- Microprocessor capacity: Up to 75 custom programs stored for instant recall
- Program linking: Up to 30 programs linked together for complex assays
- Language support: English, French, Spanish, German and Italian

Regulatory Compliance:
All Bio-Tek microplate instrumentation is CE and safety marked

Detailed specifications can be found at www.biotek.com

Bio-Stack Ready 96/384 24