

# Microplates & Readers

## Washers

### Wash 96- and 384-well microplates and strips

- Specially designed coaxial cannulae eliminates overfilling and cross-contamination
- Adjustable to all well shapes

Easy to use—connect to a vacuum source and washing solution. Place cannulae in wells, then press knob to dispense wash solution. Release, and vacuum aspirates liquid. End tabs prevent cannula from touching well surface and interfering with assay. Autoclavable and acid resistant.

**What's included:** storage rack and a spare parts kit.

Catalog number	Number of channels	For plate size	Price
<a href="#">TW-01929-25</a>	8	96-well	
<a href="#">TW-01929-26</a>	12	96-well	



## Multiwash III Plate Washers

- Quick-connect fittings allow unit to be fully operational in 15 minutes
- Rinse-on-demand feature for complete system cleaning at the touch of a button
- Can handle full range of assay types from the most gentle wash to the most aggressive ELISA

These plate washers feature easy-to-program wash routines, bottom washing, sweeping crosswise aspiration, dispense only and aspirate only functions, and overflow washing for continual dispensing while aspirating off the top for a thorough wash. Use the plate washer to perform cell washing; agglutination tests; cytotoxicity tests; and ELISA, EIA, FIA, and LIA tests.

Minimum residual volume is  $\leq 1 \mu\text{L}$  per well. Washer has seven programmable wash operations. Independent adjustments of horizontal and vertical needle positions allow any shape well to be accommodated; extra aspiration adjustment for both horizontal and vertical needle positions can be stored in individual programs. Wetted materials include glass, nylon, PTFE, stainless steel, polypropylene, Tygon®, Delrin®, acetal, polyethylene, and Santoprene®.

The washer performs a 300- $\mu\text{L}$  three-cycle wash on a full 96-well plate in less than two minutes. You control the dispense pressure. By programming and storing routines, you can switch between seven different modes at the touch of a button. The washer also features a floating manifold that adjusts to match each plate and allows the washer to perform special test procedures. All units are CE-approved, ETL-listed, and certified with CAN/CSA Std C22.2, No. 1010.1.

**What's included:** manifold, slip connectors, reservoir kit, two power cords (US standard and European), fuse, rinse strips, dust cover, and, quick-start guide. Order additional manifolds separately below.



### Specifications

#### Full plate processing time

8-port manifold: 180 seconds  
12-port manifold: 120 seconds

**Accuracy:**  $\pm 3\%$  at 300  $\mu\text{L}$

**Precision:**  $\leq 3\%$  CV at 300  $\mu\text{L}$

**Minimum residual volume:**  $\leq 1 \mu\text{L}$  per well

#### Dispense volume per well

8-port manifold: 50  $\mu\text{L}$  to 1.99 mL  
12-port manifold: 50  $\mu\text{L}$  to 1.65 mL

**Programs:** 50 preprogrammed

**Maximum numbers of cycles:** ten

**Wash and rinse reservoir volume:** two liters each

**Well shape:** independent horizontal and vertical adjustments allow any shape well to be accommodated

**Soak time:** 0 to 999 seconds

**Dimensions (W x H x D):** 11" x 8½" x 14½"  
(27.9 x 21.6 x 36.8 cm)

**Power:** 90 to 126 VAC/210 to 258 VAC, 50/60 Hz



Catalog number	Manifold included	Type	Manifold material	Price
<a href="#">TW-13054-34</a>	No	—	—	
<a href="#">TW-13054-02</a>	Yes	8-port	Standard	
<a href="#">TW-13054-10</a>	Yes	12-port	Standard	
<a href="#">TW-13054-14</a>	Yes	8-port	Coaxial	
<a href="#">TW-13054-16</a>	Yes	12-port	Coaxial	

### Interchangeable manifolds

Catalog number	Type	Manifold type	Price
<a href="#">TW-13054-20</a>	8-port	Standard	
<a href="#">TW-13054-22</a>	12-port	Standard	
<a href="#">TW-13054-26</a>	8-port	Coaxial	
<a href="#">TW-13054-28</a>	12-port	Coaxial	