

Zoom HT Microplate Washer

The Zoom HT Washer is a robust, rapid and easy-to-use microplate washer with an integrated stacker for fully automated processing of a moderate to high number of 96- and 384-well plates. The built-in stacker allows unattended processing of up to 60-plate batches. The 96-channel wash head is compatible with both 96- and 384-well plates.

The Zoom HT Washer is the result of Titertek's many years of experience in designing and building microplate washing devices. The versatility of the Zoom HT Washer is derived from flexible washing parameters. The selectable dispense flow rate and aspirate time, combining with user-defined 3-dimensional aspirate profile allow easy wash optimization for a variety of applications.

The self-emptying wash fluid evacuation system discards used wash fluids in unattended mode. It supports a constant aspirate flow rate during the wash cycle. The flow rate can be set as high as 120 l/min or can be significantly reduced to facilitate gentle cell washing. The discarded wash fluid is captured by a self-emptying waste trap. The trap is capable of automatically introducing the decontamination reagent. The decontaminated waste is continuously drained during washer operation.

The Zoom HT Washer can be used for a wide range of applications without modification or upgrades. This exceptional flexibility of the Zoom HT Washer makes it an ideal tool for diverse applications such as:

- *ELISA*
- *Multiplex assays*
- *Cell based assays*
- *Loosely adherent cell monolayers washing*
- *Microplate coating*

The optional Dispense Module enables the Zoom HT to process complex liquid handling routines that require addition of up to two reagents between washes or immediately after washing.



- **Fast: 3 x 300 µl/well wash in 24 s including stacking.**
- **50 µl reagent dispense with optional Dispense Module adds 12 s per plate only.**
- **Programmable 3-dimensional aspirating tips positioning during the wash cycle.**
- **Optional Valve Module for automated switching between up to four wash fluids.**
- **Self-emptying liquid waste evacuation system.**
- **30/45/60 plate interchangeable magazines are compatible with other Titertek equipment.**

Titertek

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Performance Specifications

Microplate Types	96- and 384-well, standard height and low profile.
Wash Manifold	96-channel.
Dispense Accuracy	± 2 % typical @ 50–300 µl range.
Dispense Precision	≤ 2 % CV @ 200 µl. ≤ 3 % CV @ 100 µl. ≤ 4.5 % CV @ 50 µl.
Wash Volume	1–2000 µl selectable in 1 µl increments.
Residual Volume	< 2 µl/well.
Wash Fluid Flow Rate	1–7.
Aspirate Tip Descent Speed	Slow/Medium/Fast.
Wash Mode	Regular and Superwash.
Aspirate Mode	Regular and 3-D (3-dimensional).
Soak Time	0–99 s.
Number of Programs	1–99.
Wash Cycles per Program	1–99.
Wash Fluid Selection (Option)	Automatic switching for up to 4 wash fluids.
Stacker Magazines	30, 45, 60 microplates.
Plate Processing Speed	1 cycle 300 µl: 14 s (96-well plate). 3 cycles, 300 µl each: 24 s (96-well plate). 3 cycles, 75 µl each: 44 s (384-well plate).

General Specifications

Dimensions (WxDxH)	69 x 56 x 61 cm; 27 x 22 x 24 inch. *
Weight	29.5 kg; 65 lb.
Power Consumption	100VA.
Power Requirements	230V 50 Hz; 115V 60 Hz.
Interface	USB, Serial interface (RS-232).
Operating Temperature	10–40° C, 50–104° F.

* including two 30-microplate magazines

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