

Zoom Series Zoom Washer HT

The Zoom Washer HT is a robust, rapid, easy-to-use microplate washer with optional dispenser for the 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 Washer HT is the result of Titertek's many years of experience in designing and building microplate washing devices for a variety of applications. The versatility of the Zoom Washer HT is derived from flexible washing parameters. The Zoom Washer can be used for a wide range of applications without modification or upgrades. This exceptional flexibility makes Zoom Washer HT an ideal tool for such diverse applications as:

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

The optional Dispense Module enables Zoom HT to process complex liquid handling routines that require addition of a different reagent between washes or immediately after washing.



- Fast: 3x300 μ l/well wash in 25s, 3x300 μ l/well wash followed immediately by 20 μ l/well dispense in 34 s.
- Low residual volume ($\leq 2\mu$ l/well).
- Programmable 3-dimensional aspirating tubes positioning during the wash cycle.
- Optional Inlet Module for automatic switching between up to four different wash buffers.
- Standard wash and Superwash (continuous flow) washing mode.
- Optional 2-reagent dispense module.
- Programmable soak time and shaking.
- 99 programs memory.
- Small instrument footprint - fits in most standard hoods.
- Keypad control - no computer required.
- Vacuum control module provides quieter operation and eliminates the need to empty traps.
- 30/45/60 plate interchangeable magazines are compatible with other Titertek equipment.

Technical

Dispensing Accuracy

96-channel wash manifold

Better than 2.0% (typical) in 50µl – 300µl range

Column manifold with 10ml Syringe

Better than 1.0% in 5µl –100µl range

Column dispense with 8 ea. 1ml Syringes

Better than 1% in 5µl –100µl range

Dispensing Precision

96-channel wash manifold

CV < 2.0% @ 200µl

CV < 3.0% @ 100µl

CV < 4.5% @ 50µl

Column manifold with 10ml Syringe

CV < 3.0% @ 20µl- 100µl range

CV < 5.0 % @ 5 ul

Column dispense with 8 ea. 1ml Syringes

CV < 3% @ 20µ- 100µl range

CV < 3.5% @ 5µl

Dispensing Details

Washer liquid path materials:

Stainless Steel, Teflon and Kel-F

Dispense module liquid path materials:

Glass, Teflon, and Kel-F

Dispense volume, washer:

1µl-2000µl selectable in 1µl increments

Dispense volume, dispense module:

1µl- 300µl selectable in 1µl increments

Flow rate, washer:

1-7

Flow rate, dispense module:

Slow, medium, fast

Dispensing Method:

Positive displacement internal pump (washer)

Positive displacement syringe (dispenser)

Plate Types:

96 well or 384 well standard, SBS conforming

Aspiration Details

Vacuum

Constant

Flow rate

Adjustable

Titertek Catalog Number

Zoom Washer

06271

Optional Dispense Module

62094

General Specifications:

Washer Weight:

65 lbs.

29.5 kg

Optional Dispense Module Weight:

26 lbs.

12 kg

Overall Dimensions:

27 width x 22 depth x 24 height (Inches)

(With 30 plate magazines installed and allowance for cable clearance)

69 width x 56 depth x 61 height (Centimeters)

Power Requirements:

115 / 230 V, ± 10 %, 60 / 50 Hz

Operating Temperature Range:

50° F to 104° F

+ 10° C to + 40° C

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