

C.WASH™ PLUS

The Power Of A Microplate Washer. Taken Further.



The all-new C.WASH PLUS combines a high throughput, automation-ready and patented centrifugal plate washer with precise and dedicated dispensing capabilities for multi-reagent immune and cell-based assays in 96-, 384- and 1536-well plate formats.



Non-contact, centrifugal liquid washing:
Ensures sterile cell work. No carryovers.
No contamination. No use of pipette tips.



Automate entire assays:
12 liquid inputs and the new precision dispenser make it ideal for automating assays such as ELISA or cell staining & washing procedures.



Ultra-low residual volume:
Spin your way to 99.5% washing efficiency with less than 0.1 µl residual volume and drastically less waste.



Programmable versatility:
With the C.WASH PLUS software, tailor your lab's workflow like a pro. Customize dispensing, tweak volumes, pause on demand – the control is all yours; end-to-end.



Cell-friendly dispensing:
Plate perfection: C.WASH nails precise positioning, low-volume dispensing, and gentle evacuation, making cell detachment in 96- to 1536-wells a thing of the past.



Effortless maintenance:
Our instrument self-cleans like a dream. Just hook up the solution, hit 'clean', and watch it scrub its insides – rotor to head. Lazy maintenance, lasting performance.

Oh. So. Plus.

- ✓ Compatible with any SBS format 96-, 384- and 1536-well plates
- ✓ Residual volume of <0.1 µl per well for all plate formats
- ✓ Unmatched washing efficiency of >99.99% after only 2 wash cycles
- ✓ Low to zero dead volume enabled by all-new dedicated and precision dispensers

Impact Areas

- ✓ Assay Automation
- ✓ Immunoassays (e.g. ELISA plate washing and multiplexed protein assays such as MSD)
- ✓ Cell Washing – Adherent and Suspension Cells
- ✓ Plate Coating
- ✓ Washing in 1536-well format (HTS)
- Media Exchange



Intrigued? Get in touch.



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Technical Specifications

Liquid Removal	
Plate compatibility (format)	96, 384, 1536
Plate compatibility (height)	standard 14.4 up to 20.1 mm with customized carrier
Residual volume	< 0.1 µl per well for all plate formats
Centrifugal forces	5 to 3500 rpm (450g) max acceleration/deceleration 2000 rpm
Standard Dispenser (Membrane Pump & Electromechanical Valve)	
Dispense head	8-needle, 16-needle
Liquid inputs	2 dedicated, 6 shared (Auto switching (internal) for up to 6 liquid input channels)
Dispensing accuracy & precision (standard dispenser)	<10% CV @ 30 µl standard
Adjustable dispense pressure	yes (3 levels)
Deadvolume internal (Tube volume)	8 ml multiplex
Deadvolume (Liquid switch/priming)	down to 0 µl (dedicated dispense heads)
Volume range standard dispenser	8-needle dispense head: > 10 µl 16-needle dispense head: > 5 µl
Dispense speed - 96-well (50 µl)	11 seconds
Dispense speed - 384-well (25 µl)	15 seconds
Precision Dispenser (Pressure-Over-Liquid)	
Dispense head	8-needle mounted on y-axis
Liquid inputs	4
Adjustable dispense pressure	yes
Deadvolume	3 ml
Dispensing accuracy & precision (precision dispenser)	<5% CV @ 2 µl
Volume range precision dispenser	down to 2 µl
Dispense speed - 96-well (100 µl)	24 seconds
Dispense speed - 384-well (50 µl)	63 seconds
Dispense speed - 1536-well (5 µl)	180 seconds
Washing Speed	
Processing speed 96-well 1 wash cycle	≤ 43 seconds
Processing speed 96-well 2 wash cycles	≤ 60 seconds
Processing speed 384-well 1 wash cycle	≤ 54 seconds
Processing speed 384-well 2 wash cycles	≤ 70 seconds
Processing speed 1536-well 1 wash cycle (precision)	≤ 3 minutes
Liquid Waste System	
Active Pump for rapid liquid removal from wash drum	
Miscellaneous	
Plate positioning	band drive + linear magnetic sensor; accuracy: +/- 100 µm
User interface	Touchpad (included)
Automation	SiLA2 interface is compatible with third-party integration
Washing efficiency	> 99.5% after 1 wash cycle, > 99.99% after 2 wash cycles
Dimensions (W x D x H)	410 x 615 x 300 mm
Weight	35.2 kg

*C.WASH PLUS centrifugal washer products are manufactured under an exclusive license from Yantai Ausbio Laboratories.

Resources

Learn more about the power of the platform




Tip Consumption Calculator






Application Notes




Wall of Love



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