



ELISA WASHER



Quality, Management, Environment, Health & Safety Standards



CDSCO MD 5 License



USFDA Listed



European CE



ISO 9001: 2015
IAF



ISO 13485:2016
NABCB/IAF



ISO 45001 : 2018
IAF



7 Electric Safety Certifications
IEC 60335-1 and IEC 60335-2-24, IEC 61010-1,
IEC 61010-2-020 and 61010-2-101, IEC 61326-1,
IEC 61326-2-6.

INTRODUCTION

MarkEn presents its Advanced ELISA Washer, an efficient and precise solution for microplate washing in immunoassay applications. Designed with programmable flexibility, minimal residual volume, and user-friendly controls, it ensures consistent washing quality while reducing reagent consumption. Built for reliability, accuracy, and ease of use, this washer is ideal for clinical laboratories, research centers, and diagnostic facilities.



KEY FEATURES

- **Flexible Plate Compatibility:** Compatible with Flat, U, and V-bottom plates, providing versatile application support.
- **Application :** Suitable for routine ELISA testing in Microbiology, Serology, Clinical Diagnostics and Research Laboratories.
- **Programmable Cycles:** Customizable washing protocols for versatile laboratory applications.
- **Efficient Strip Washing:** Programmable washing for 1 to 12 strips, improving throughput efficiency.
- **Clear Display:** Large Digital display for easy operation
- **Smart Fluid Management:** Equipped with three dedicated bottles—for wash, rinse, and waste—to maintain hygiene and efficiency.
- **Compact and Robust:** Space-efficient design with durable build, ensuring stable long-term operation.
- **Easy Maintenance Design** with quick decontamination access

TECHNICAL SPECIFICATIONS	
Make	MarkEn
Type	ELISA Microplate Washer
Plate Compatibility	24, 96 and 384-well plates; microwell strips
Volume Range	25–3000 µL per well
Dispense Volume	25–3000 µL per well
Wash Cycles & Speed	1–10 wash cycles with 8-channel manifold; 3 cycles of 300 µL/well completed in <130 sec
Strip Washing	1 to 12 strips programmable
Soaking Function	Programmable soaking up to 30 minutes
Shaking Time	Programmable shaking up to 30 minutes with 5 intensity levels from 15–19 Hz.
Display	4.3-inch colour LCD touchscreen
Plate Holder	Detachable microplate holder
Manifold Support	8-well, 8-well short tube, 2 × 8-well and 12-well manifolds
384-Well Manifold	16-well manifold for 96 and 384-well washing
24-Well Manifold	4-well manifold for 24-well washing
Washing Features	Overfill washing with overflow protection
Residual Volume	<2.0 µL per well
Pump System	Positive displacement syringe drive pump
Built-in System	Built-in pumps, aerosol cover, 3 bottles and 8-channel manifold
Dispensing System	Automatic buffer dispensing system
Aspiration System	Automatic aspiration system
Spill Prevention	Built-in spill prevention mechanism
Waste System	Waste bottle with level sensor
Memory Function	Programmable memory functions
Interface	RS-232
Software	Onboard software with up to 75 user-programmable protocols
Operation Menu	Quick menu for operation
Protocol Control	Create, edit and run custom protocols onboard or through PC software
PC Control	Supports wash protocol programming and execution through PC software (LHC compatible, if applicable)
Operation Noise	Low-noise operation
Power Supply	220–240V AC, 50Hz

VALIDATED WASHING PERFORMANCE

- **96-Well Washing Speed:** <80 sec (2 × 8 wells), <90 sec (12 wells), <130 sec (8/8 wells); 3 wash cycles, 300 µL/well, no soak.
- **384-Well Washing Speed:** <260 sec (8/16 wells); 3 wash cycles, 100 µL/well, no soak.
- **24-Well Washing Speed:** <60 sec (4 wells); 1 wash cycle, 1120 µL/well, no soak.
- **Dispense Precision:** ≤3.0% CV (96-well, 8/12 wells); ≤4.0% CV (384-well, 8/16 wells; 96-well, 2×8 wells; 24-well, 4 wells).
- **Residual Volume:** ≤2.0 µL/well (96-well, 8/12 wells); ≤4.0 µL/well (384-well & 96-well, 2×8 wells); ≤50 µL/well (24-well, 4 wells).
- **Vacuum Filtration:** Average plate weight increase <1.2 g after dispensing 300 µL deionized water per well.

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CERTIFICATION



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WHO-PQS accredited
laboratory



ISO 14001: IAF



WHO GMP



BIFMA Certified,
BIFMA Level 3



ASTM- Corrosion
Free Products



ISO 2409

EN 13523-26,
ISO 13849-1,
IP 69, IP 65

& MANY OTHER...

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& MANY MORE...



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