Automatic ELISA Microplate Washer, 8/12 Needle Head, ≤1 µL Residual, 10-9999 µL Dispense

Model **MSMPW-H330SWISS** | Brand **Master Science**





The Automatic ELISA Microplate Washer prepares ELISA plates between assay steps by dispensing and aspirating wash buffer through an 8-needle or 12-needle head. It handles flat-bottom, U-bottom and V-bottom microplates and can wash a whole plate or selected strips.

KEY HIGHLIGHTS

- Very Low Residual
- Plate or Strip Washing
- No Dry Runs or Overflows
- Clog Prevention

AT A GLANCE

≤ 10%
DISPENSING ACCURACY

Request a Quotation
Contact us for pricing, configuration options and delivery details.

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Overview

Two-point aspiration keeps the residual volume at or below 1 µL per well, while a liquid level sensor warns before the wash bottle runs dry or the waste bottle overflows. The Automatic ELISA Microplate Washer is set up through a 3-inch capacitive touch screen and stores more than 600 user-defined programs.

Read washed plates on our ELISA Microplate Reader with Monochromator to complete the Automatic ELISA Microplate Washer workflow.

Manual washing with a multichannel pipette causes the issues below. The Automatic ELISA Microplate Washer removes them.

Key Benefits

Very Low Residual
Two-point aspiration leaves no more than 1 µL per well, reducing background in the final read.

Plate or Strip Washing
Wash all 12 strips or only the strips in use, saving buffer on partial runs.

No Dry Runs or Overflows
A liquid level sensor monitors the wash and waste bottles during operation.

Clog Prevention
Automatic flushing before and after each run keeps needles and tubing free of crystals.

Technical Specifications

UNDEFINED	
Brand	Master Science
Model Number	MSMPW-H330SWISS
SKU	MSMPW-H330SWISS
Washing Head	8 needles / 12 needles
Washing Channel	Separate channels for wash solution and rinsing
Optional Channels	2-4 wash solution channels
Washing Mode	Plate or strip
Washing Cycles	1-99, adjustable
Washing Strips	1-12, adjustable
Soaking Time	0-24 h, adjustable
Shaking Time	0-24 h, adjustable
Residual Volume	≤ 1 µL/well
Dispense Volume	10-9999 µL, 1 µL step
Aspiration Time	0.1-9.9 s
Dispensing Accuracy	**≤ 10%**
Cleaning Method	Two-point aspiration, bottom rinsing, overflow washing, adjustable fluid pressure
Auto Flushing	Runs before and after washing to prevent needle and tube blockage
Program Storage	More than 600 user-defined programs
Display	3-inch capacitive touch screen
Menu Languages	English, Spanish, Chinese
Compatible Plates	Flat-bottom, U-bottom, V-bottom
Power Supply	AC 100-240 V, 50/60 Hz
Dimensions (L × W × H)	446 × 368 × 164 mm
Net / Gross Weight	9 kg / 14 kg
Package Size	600 × 530 × 500 mm

PROBLEMS THE AUTOMATIC ELISA MICROPLATE WASHER SOLVES

High residual buffer raises background	Two-point aspiration leaves no more than 1 µL per well.
Inconsistent manual washing between plates	Programmed cycles, volumes and times repeat every run the same way.
Wasted buffer on partly used plates	Strip mode washes only the strips selected.
Blocked needles after salt buffers	Automatic flushing runs before and after each wash.
Empty wash bottle or overflowing waste mid-run	The liquid level sensor monitors both bottles.

Applications

- **Washing steps in ELISA assays**
- **Enzyme immunoassay plate preparation**
- **Washing of flat-bottom, U-bottom and V-bottom microplates**
- **Clinical and research immunoassay labs**
- **Vaccine and antibody screening labs**

Washing Functions

- 8-needle or 12-needle washing head
- Whole-plate or individual strip washing
- Bottom washing, shaking and soaking functions
- Pause during a washing run

Liquid Handling

- Dispense volume 10-9999 µL in 1 µL steps
- Two-point aspiration with ≤ 1 µL/well residual
- Fine adjustment of wash fluid pressure
- Separate channels for wash solution and rinse; 2-4 wash channels optional

Operation

- 3-inch capacitive touch screen
- More than 600 user-defined programs
- Adjustable washing time and tube flushing
- Liquid level sensor for wash and waste bottles

Standard Accessories Included

- Microplate washer main unit (8-needle or 12-needle head as ordered)

Optional Accessories

- Additional wash solution channels (2-4 channels)