



iWO

Autobio Microplate Washer

Autobio

autobio labtec instruments

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iWO

Autobio iWO is a state of the art microplate washer, designed to meet the demanding requirements of today's microplate based immunoassays.

Product highlights

8- and 12-way manifold for 96-well microplates

The high precision manifolds guarantee perfect washing performance in solid and strip plates. 80 plate geometries can be stored to optimize vertical and horizontal manifold positioning during washing. 96-well Flat-, U- and V-bottom plates are supported.

Flexible wash procedure definition

Wash procedures are created as a sequence of previously configured wash cycles defining the desired parameters for:

Aspirating with selectable duration and power. The crosswise aspirate feature guarantees minimal residual volume.

Dispensing at high precision with variable volume and power

Washing can be performed either in bottom- or overflow wash mode.

Shaking at selectable time, amplitude and speed is used to minimize bubbles and adherence of liquid to well surface

Soaking duration can be set as required and assures repeatable timing of each wash procedure.

Up to 100 wash procedures and wash cycles can be defined and stored on iWO.

Combined with the selection of the programmed plate type and wash liquid to be used with the assay perfect wash results are achieved.

Priming and rinsing

In order to facilitate maintenance and reduce the risk of clogging, priming and rinsing the system can be performed manually, automatic or periodic.

One, two or four wash liquids

Depending on the configuration iWO can connect to either one, two or four wash bottles and one waste bottle. The wash solution to be used is defined in the wash protocol.

Optional liquid level detection for wash and waste bottles can be added to assure safer processing.

Magnetic particle washing option

A special plate carrier, available as option adds magnetic particle washing ability to iWO. Together with the precisely adjustable washing and plate parameters optimum washing results for this sophisticated technology are achieved.

More features

All relevant parts are easily accessible for cleaning and regular maintenance.

Built in high performance pumps for quiet operation.

Vacuum and pressure free system.

External Power supply for increased safety.

IVD

iWO has passed all required tests and reviews, carried out by independent certified bodies, to certify compliance with the relevant directives 98/79/EC (IVD), 2004/108/EC (EMC) and 2006/95/EC (LVD).

ISO 9001 • 13485
CERTIFIED IVD CE

Autobio Group

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Specifications iWO

Plate Types	96-well microplates, 8- or 12-way strips Flat-, U- and V-bottom
Manifold	8- or 12-channel (user exchangeable)
Liquid channels	4 wash channels, 1 waste channel
Dispense volume	25-3500µl in increments of 25µl
Dispense speed	adjustable in 5 steps
Dispense precision	<2% CV at 300µl across the plate
Residual volume	<1µl (with flat bottom plate)
Soak time	0-3600sec. in increments of 10sec.
Shaking time	0-990sec. in increments of 10 sec.
Shaking amplitude	adjustable in 10 steps
Shaking speed	adjustable in 10 steps
Aspiration time	0 to 10sec. in increments of 0.1sec
Aspiration speed	adjustable in 5 steps
Washing cycles	1 to 9 cycles
Priming and rinsing	manual, automatic, periodic
Wash modes	Bottom- and overflow washing
Cross-aspirate function	yes
Wash procedures	up to 100
Wash cycles	up to 100
Plate setups	up to 80
Power supply	100-240VAC, 50-60Hz, 55VA 24VDC output
Display and keyboard	2x16 characters backlit display, keyboard with 5 function keys, power indicator
Communication	RS232
Liquid level detectors	yes (optional for wash/waste bottles)
Dimensions	40 x 25,5 x 22,5cm (LxWxH)
Weight	6,7kg net (without bottles) 0,2kg per bottle
Scope of supply	Instrument, manifold (8- or 12-way), bottles, tubing, manual, power supply, power cord, user manual, accessories.

Configurations iWO

Art.No.	Description
201 100 08	iWO with one liquid line 8-way manifold
201 100 12	iWO with one liquid line 12-way manifold
202 100 08	iWO with two liquid lines 8-way manifold
202 100 12	iWO with two liquid lines 12-way manifold
204 100 08	iWO with four liquid lines 8-way manifold
204 100 12	iWO with four liquid lines 12-way manifold
	alternative manifold available as option