

New Realm
New Value
New Experience



PW-960

Full-Automatic Microplate Washer

PW-960

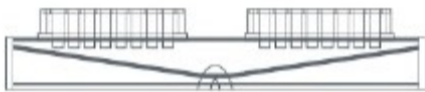
Full-Automatic Microplate Washer

Efficiency——2 Microplates alternative, washing 2 microplates within 1 minute.

Reliability——Special Washer manifolds design and anti-clogging technology can avoid cross-contamination and blocking.

Regulatory compliance——Meet the IVD-directive 98/79/EC for Europe, CE certified.

Convenience——Easy to maintain and operate.



Bottom holder is slope, in order that all waste water can be pumped out, which can prevent microplates from contaminating.



Uniform dispensing, low residual volume

Professional design of washer manifold's interior double tanks can keep water pressure uniform. Dispense precision $CV < 1.5\%$.
Aspirating in multi-position can guarantee low residual volume $< 0.7\mu\text{l}$.
Two alternative microplate holders make speed double, which can make use of soaking time.
Washer manifolds work continuously, save time.

Avoid cross-contamination

Long needle for aspirating and short needle for dispensing make waste water and solution minimally contacted.
Soaking and shaking can avoid fluid's adsorption.
Bottom holder is slope, in order that all waste water can flow along the surface and be pumped out, which can prevent microplates from contaminating.

Professional anti-clogging technology

The control technology of pump pressure can avoid needle's clogging.
Wash bottle filter can keep sediments in the solution away the pipes.
Pre-defined rinse procedure can avoid crystallizing in the pipes.
Detachable manifolds makes easy to clear particles in the manifolds.
Special cleaning fluid or pre-defined rinse procedure when turn on or turn off can make easy to maintain the device.

Suitable to different sample's quantity

Do not need to complement the whole plate or strip when any strip or hole is empty.
Do not need to stop working when change plates, which enhances productivity.
8-way or 12- way manifolds is available according to your conditions.

It is controlled by microcomputer to wash 48 well and 96 well microplate in experiments of Enzyme Linked Immunosorbent Assay (ELISA), Time-Resolved Immunofluorometric Assay (TRFIA) and Chemiluminescence, which are widely used in clinical diagnostic laboratories, centers for disease control and prevention, animal and plant quarantine, animal husbandry and veterinary epidemic prevention stations, biotechnological industries, food industries, environmental science, agricultural scientific research and other academic organizations.



Waste water sensor



Wash bottle filter



Water mist catching device

Easy to operate

Easy to name, edit and save different wash programs.

Motor speed is adjustable.

Stop or Pause key in the board can be chosen to stop or pause during working.

Multi-plate can be selected by default settings or manual operation.

Detachable microplate holder makes easy to disinfect and maintain it.

Air pressure can be adjusted to keep safe via special airpressure valve.

Operating noise can be less than 54 dB because of silencer design.

Advanced function, well expansibility

100 kinds of programs can be saved.

The positions of dispense and aspirate manifolds are adjustable.

Suitable for flat, U and V-bottom microplates.

Coating function, 1000 microplates/ hour.

PW-960

Full-Automatic Microplate Washer



● Main Technical Parameters

Wash head types: microplate 12 line×8 well and 8 line×12 well are available

Dispense uniformity: CV < 1.5%

Wash times: 1 to 99 times adjustable

Wash lines: whole plate or 1-12 lines random combination

Wash mode: Single plate, double plates or multi-plates

Dispensing volume: 50-950 μ l, interval 50 μ l adjustable
(May extend to 0-6000 μ l interval 25 μ l adjustable)

Wash speed: 5 seconds/plate, 140 plates /hour

Soaking time: 0 to 999 seconds adjustable

Shaking time: 0 to 999 seconds adjustable

Aspirating time: 0.1-99.9 seconds adjustable, interval 0.1second

Microplate positions: plate A and plate B

Residual volume: <0.7 μ l /well

Wash head positions adjustable: horizontal, left, right, middle, bottom, interval of plates

Bottle volume: 300ml and 4000 ml for solution bottle, 4000 ml for waste water bottle

Power: Power Supply 220V AC \pm 30%, 50Hz \pm 3 Hz

● Physical

External Dimensions 53.8cm (21.2 in) × 42.6cm (16.8 in) × 23.0cm (9.1 in)
(Height/width/depth)

Net Weight 21kg

● Note:

1. There are 3 kinds of devices: PW-960N, PW-960 and PW-960plus.
2. There is only one solution bottle for PW-960N.
3. PW-960 plus with added features:
 - a) Auto discharge function for waste water.
 - b) Water mist catching device keeps vacuum pump dry.
4. Solution bottle/waste water bottle: 300ml, 2000ml, 5000ml, 10L/ 20L.



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Patent No.: 200720118803.2 / 200720118804.7 / 200720118805.1
201120226820.4 / 201120227698.2 / 201120257341.9 / 201120257342.3

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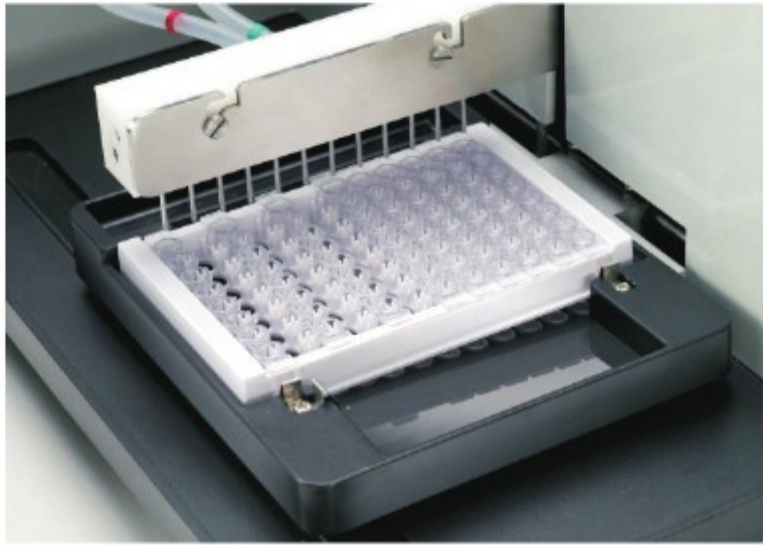


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PW-812

Full-Automatic Microplate Washer



PW-812

Full-Automatic Microplate Washer



It is controlled by computer to wash 48 well and 96 well microplate in experiments of Enzyme Linked Immunosorbent Assay (ELISA), Time-Resolved Immunofluorometric Assay (TRFIA) and Chemiluminescence, which are widely used in clinical diagnostic laboratories, centers for disease control and prevention, animal and plant quarantine, animal husbandry and veterinary epidemic prevention stations, biotechnological industries, food industries, environmental science, agricultural scientific research and other academic organizations.



Bottom holder is slope, in order that all waste water can be pumped out, which can prevent microplates from contaminating.

Features

- 3.5-inch LCD display.
- Easy to name, edit and save different 100 wash programs.
- Any line and hole can be easily cleaned, unnecessary to complement the whole plate or strip.
- Stop or Pause key in the panel can be chosen to stop or pause during working.
- Aspirating in 2 positions, residual volume <math><0.7\mu\text{l}</math>.
- Multi-plate can be selected by default settings or manual operation.
- Microplate holder is detachable, which makes easy to disinfect and maintain it.
- Suitable for flat, U and V-bottom microplates.
- Special rinse procedure makes easy to maintain the device and reduces contamination between plates.
- Wash bottle filter keeps sediment in the solution away the pipes.
- The control technology for pump pressure can avoid clogging in needles.
- Automatical rinse procedure by distilled water when turn on or turn off can avoid crystallizing in the pipes.
- Detachable manifolds makes easy to clear particles in the manifolds.
- Waste water sensor avoids overflow in the waste bottle.
- Scientific structure design avoids bottom contaminating.
- Patent design of washer manifolds avoids it out of position or flop.

Note:

1. There are 3 kinds of devices: PW-812N, PW-812 and PW-812plus.
2. There is only one solution bottle for PW-812N.
3. PW-812 plus with added features:
 - a) Auto discharge function for waste water.
 - b) Water mist catching device keeps vacuum pump dry.
4. Solution bottle/waste water bottle: 300ml, 2000ml, 5000ml, 10L/ 20L.



Program panel



Waste water sensor



Wash bottle filter

Main Technical Parameters

- Plate models: flat-, round -, U-, V- plate (96-well and 48-well)
- Manifold types: 8- and 12- way
- Wash times: 1 to 99 times adjustable
- Wash lines: 1-12 lines selectable
- Residual volume: <math><0.7\mu\text{l}</math> /well
- Wash mode: plates or strips
- Dispensing uniformity: CV <math><1.5\%</math>
- Dispensing volume: 50-950 μl , interval 50 μl adjustable
(May extend to 0-6000 μl , interval 25 μl adjustable)
- Number of dispensing channels: 3 channels, can be extended to 5 channels
- Soaking and shaking time: 0-999 (seconds/minutes/hours) adjustable
- Aspiration time: 0.1-9.9 seconds adjustable, interval 0.1second
- Pipeline wash time: 0-240 seconds adjustable
- Distilled water automatically wash interval: 0-20 plates
- Operation language: English



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Patent No.: 200720118803.2 / 200720118804.7 / 200720118805.1
 201120226820.4 / 201120226821.9

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