

## H.HOELZEL PIPETTE WASHERS

### Cleaning procedure

The optimized cleaning effect of Hoelzel pipette washers results from a special cleaning procedure. Before the actual washing process starts, glass pipettes that have to be cleaned are heated or boiled in an optimized alkaline lye with distilled water. The main cleaning procedure is followed by a special process to remove purifying agents and all remaining particles sticking to the pipettes. After the completion of all washing processes the water is pumped out automatically followed by thermal pipette drying.

### Available basic models

Model MPS: Small washer with automatic dosage (up to 1000 pipettes)

Model PSD: Washer for up to 3000 pipettes

Model EPS 2/D: Washer with 8 individually adjustable cleaning programs

Model EPS 3/D: additional operation with double distilled water



#### **Modell MPS Art. 75000**

- 2 electronic cleaning programs (non-programmable)
- Adjustable water level
- Automatic cleaning agent dosage
- Operation with tap or distilled water
- Capacity: 20 -970 pipettes (depending on size)

Small pipette washer with 2 different cleaning programs and automatic liquid dosage. Developed for the operation with tap or distilled water.

Automatic dosage of liquid cleaning agent (distilled water) or liquid buffer solution (for use with tap water) depending on type of water supply.

In case of tap water, powdered cleaning agent must be added manually

#### **Model PSD Art. 76-000**

- Single permanent electronic cleaning program
- Adjustable water level
- Automatic cleaning agent dosage
- Adjustable quantity of cleaning agent
- Adjustable cleaning temperature
- Operation with deionised AND tap water.
- Capacity for 50 - 3000 pipettes (depending on size)



Pipette dishwasher with fixed programmed cleaning process and automatic dosage of liquid cleaning agent. Developed for the operation with tap water and distilled water. Optional: exclusive operation with tap water.

Water-level, cleaning agent quantity and water temperature are adjustable.

Choice between "Drying" and "Not Drying" after completion of washing process.

An integrated program flow control makes unattended operation possible.

### Modell EPS2/D Art. 74400



- 8 variable/1 static cleaning program
- Programmable water-level
- Automatic addition of cleaning agent
- Adjustable quantity of cleaning agent
- Adjustable cleaning temperature and duration
- Operation with distilled water AND tap water.
- Capacity for 50 -3000 pipettes (depending on size)

The device has an automatic cleaning agent dosage system. All parameters are adjustable. Choice of "Drying" and "Not Drying" after completion of washing process.

An integrated program flow control makes unattended operation possible.

Also available without automatic cleaning agent dosage ( = Model EPS 2 )

### Modell EPS3/D Art. 74600



- 8 variable / 1 static cleaning program
- Programmable water-level
- Automatic addition of cleaning agent
- Adjustable quantity of cleaning agent
- Adjustable cleaning temperature and duration
- Operates also with double distilled water
- Capacity for 50 -3000 pipettes (depending on size)

Electronic pipette washer equipped with an integrated PLC (Programmable Logic Controller) providing 8 individually adjustable and 1 fixed cleaning program. The device has an automatic cleaning agent dosage system. All parameters are adjustable.

Choice of "Drying" and "Not Drying" after completion of washing process. An integrated program flow control makes unattended operation possible.

Also available without automatic cleaning agent dosage ( = Model EPS 3 )

### Cleaning agent for Hölzel pipette washers

Our special cleaning agents are optimally fitting to use with Hölzel pipette washers.

A gentle wash takes care of both the device and pipettes.

Available package sizes:

Art. 73-207: 5 liters (approx. 40-60 ml/washing)

Art. 73-203: 7.5 kg (approx. 50 g/ washing)

### The holders for our pipette washers are also available one by one

Individual configuration with pipette holders for enhanced flexibility in daily lab use

Please ask for compatible holder types for your pipette washer.



## Pipette washer comparison chart



**MPS**



**PSD**



**EPS**

Attributes	MPS	PSD	EPS 2-D	EPS 3-D
1 fixed electronic cleaning programme	● #	●	●	●
8 variable cleaning programmes			●	●
Prosecute with VE-water	●	●	●	●
Prosecute with tap water	●	●	●	●
Prosecute with additional double demineralised water				●
Number of rinse cycle programmable			●	●
Water level programmable	●	●	●	●
Alloance of detergent automatically (liquid)	●	●	●	●
Quantity of detergent programmable	●	●	●	●
Cleaning temperature programmable		●	●	●
Cleaning time programmable			●	●
Alternatively drying or not drying (to leave in VE-water)		●	●	●
Neutral facility			● ##	● ##
Programme run control		●	●	●
Cleaning capacity filling volume: ca. 10 liter	●	●	●	●
Cleaning capacity filling volume: ca. 40 liter		●	●	●

# = 2 fixed cleaning programmes  
## = Option

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