



**Water
purification
system
HLP Smart**



HYDROLAB
WATER PURIFICATION SYSTEMS

Automatic equipment for producing demineralized water from tap water, with a microprocessor-based measurement and control system that monitors the purification process.

The purified water has a conductivity of less than $0,06 \mu\text{S}/\text{cm}$ and meets the requirements of the ISO 3696: 1999 (Water for analytical laboratory use. Specification and test methods.) for grade II water. It is suitable for the preparation of solutions, buffers and chemical reagents; it can also be used in autoclaves, clinical analyzers and other laboratory equipment.

Microprocessor-based measurement and control system

- LCD display
- Conductivity meter for conductivity and temperature of the purified water
- Temperature compensation
- Clock displaying date and time
- Information on the operating status of the system
- Alarm for the replacement of the integrated module
- Alarm for replacement of the ion exchange module
- Preview of maintenance schedules

technical characteristics

tap water requirements

Conductivity	< 1200 $\mu\text{S}/\text{cmr}$
Minimum pressure	3 bar
Temperature	5-40 °C
Hardness	< 250 mg $\text{CaCO}_3/\text{dm}^3$
Iron	< 0,2 mg/ dm^3

treatment stages

- 5 μm external pre-filter for sediments
- Mechanical filtration, activated carbon and softening (integrated module)
- Reverse osmosis
- Demineralization in ion exchange column with mixed bed

installation site requirements

- Tap with 1/2" or 3/4" connection
- Drainage to sewerage system
- 230V/50Hz power supply



characteristics:
CODE - PDB006



Code	PDB006	PDB006.40
Water supply		Tap water
Dimensions	200x375x420 mm	
Purified water production capacity	4-4,5 L/h	
Purified water conductivity	< 0,06 μ S/cm	
Alerts	Messages/alarms from monitoring	
Modules	Interchangeable and easy replacement	
Built-in RS 232 interface	For communication with a computer For individual setting of service Frequency and alarm levels	
Software	External	
Pressure gauge	For tap water	
Purified water storage tank *	10 L tank Available in 80 L	40 L tank

*The equipment automatically stops producing purified water when the tank is full.

Compatible spare parts



CODE - PDD007



CODE - PDD008



CODE - PDD009

Code	Description	Consumption	Duration
PDB006	Water purification system HLP Smart	10 W	
PDD008*	Prefilter cartridge 5 µm 10''		6 Months
PDD007*	Integrated module A2		6 Months
PDD009**	Module H7 ion exchange		2.000 l

* The lifetime of the cartridge may vary depending on the tap water flow rate, as well as on the type of mineralization.

**The volume of purified water depends on the quality of feed water; maximum dissolved salts in feed water - 1200 mg/l.