



# **BASIC 5** Water purification system



**HYDROLAB**  
WATER PURIFICATION SYSTEMS

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

The purified water, depending on the flow rate of the tap water, has a conductivity ranging from 0,2 to 0,8  $\mu\text{S}/\text{cm}$  and meets the requirements of ISO 3696: 1999 (Water for analytical laboratory use. Specification and test methods.) for grades II.

The water obtained is used for general laboratory use, physico-chemical analysis, preparation of nutrients, buffer solutions, reagents, etc. It can also be used as supply for other laboratory equipment, such as climatic cabinets, water baths, polishing demineralizers, salt chambers, etc.

#### Microprocessor-based measurement and control system

- LCD display 2x16 characters
- Conductivity meter for conductivity and temperature of the purified water.
- Clock displaying date and time
- 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/ $\text{dm}^3$

### treatment methods

- 5  $\mu\text{m}$  pre-filter for sediments
- Mechanical filtration, activated carbon and softening (integrated module)
- Demineralisation in ion exchange column with mixed bed

### installation site requirements

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



characteristics:  
**CODE - PDB007**



Code	PDB007
Water supply	Tap water
Dimensions (widthxdepthxheight)	235x440x510 mm
Purified water production capacity	1-2 L/min
Purified water production capacity	0,06-0,8 $\mu\text{S}/\text{cm}$
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 feed water

## Compatible spare parts



CODE - PDD007



CODE - PDD008



CODE - PDD010

Code	Description	Consumption	Duration
PDB007	Water purification system Basic 5	10 W	
PDD008*	Prefilter cartridge 5 $\mu$ m 10''		6 Months
PDD007*	Integrated module A2		6 Months
PDD010	Module H6 ion exchange		28 g CaCO <sub>3</sub> /litre of ionic resin

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