



Water purification system **ULTRA**



HYDROLAB
WATER PURIFICATION SYSTEMS

Automatic equipment for producing ultrapure water, with a recirculation circuit with a TOC ion exchange module, a 254 nm photooxidation module (UV lamp) and a 0.45/0.2 μm cascade microfiltration capsule.

The purified water meets the requirements of the ISO 3696: 1999 (Water for analytical laboratory use. Specification and test methods.) for grade I water. It can be used in instrumental analysis techniques such as AAS, ICP/MS, IC, HPLC, GC, in bacterial culture and biochemical analysis.

Measurement and control system:

- Color graphic touch screen
- Conductivity meter for conductivity and temperature of purified water
- Reading of compensated and uncompensated temperature values
- Clock displaying date and time
- Information on the operating status of the system
- Graphic and audible alarm signaling
- Alarm for replacement of ion exchange module
- Alarm for replacement of UV lamp
- Alarm for replacement of microfiltration capsule
- Preview of maintenance schedules



technical characteristics

feed water requirements

Purity	Grade II or III
Minimum pressure	1 bar
Temperature	5-40°C

treatment stages

- Demineralization in a TOC ion exchange column with mixed bed
- Photooxidation with a 254 nm UV lamp
- Microfiltration with a 0.45/0.2 μm cascade capsule

installation site requirements

- Pretreated water supply with $\frac{1}{2}$ ", $\frac{3}{4}$ " or 6 mm connection
- 230V/50Hz power supply



characteristics:
CODE - PDB008



Code	PDB008
Water supply	External source of pretreated water (purity grade II or III)
Ultrapure water production capacity	1 L/min minimum
Ultrapure water conductivity	< 0,055 μ S/cm
TOC	< 5 ppb
Bacteria	< 1 ufc/mL
Particles > 0,2 μ m	< 1/mL
Modules	Interchangeable and easy replacement
Pressure gauge	For feed water
Pump	Recirculation
Dimensions (widthxdepthxheight)	235x470x570 mm
RS 232 and USB ports (Built-in)	For communication with a computer For individual setting of service Frequency and alarm levels
Software	External

Compatible
spare parts



CODE - PDD012



CODE - PDD011



CODE - PDD013

Code	Description	Consumption	Duration
PDB008	Water purification system ULTRA	60 W	
PDD012	Microfiltration capsule 0.45/0.2µm 150cm²		12 Months
PDD011*	H7 TOC Ion exchange module		2.000 L
PDD013**	UV lamp 254 nm HLP		12 Months

* If the parameters of the feed water are different (hard water), the lifetime of the spare parts may be shorter.

** Time 12 months or 8500 hours