



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 0.45/0.2 μ m 150cm ² | | 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