

# ULTRA

Catalogue no.: DR-TOC-00



  
**HYDROLAB**<sup>®</sup>  
WATER PURIFICATION SYSTEMS

**Technical specification:**

- System intended to be fed by purified water of II or III purity class, according to PN-EN ISO 3696:1999, ASTM, CLSI.
- Water purification levels:
  - demineralization on an spectrally clean ion-exchange TOC bed,
  - UV lamp 254 nm,
  - microfiltration capsule 0,45/0,2µm.
- Automatic and unattended system operation.
- System equipped with a recirculation pump.
- Mobile intake point of water – first purity class according to PN-EN ISO 3696:1999, equipped with a microfiltration capsule 0,2µm.
- Recurring, automatic purified water recirculation between water intakes.
- User-performed maintenance procedures (easy disposables replacement).
- Intended to be fed by cold water: 5-40°C.
- Optional user-performed device installation.
- Power supply: 220-240V/50Hz.

**Dimensions:** 235x470x570 mm

**Functions monitoring the device:**

- The device is equipped with a 24V automatics with a microprocessor control and measurement system, that includes:
  - color display screen with a Touch Panel,
  - conductometer measuring conductivity and temperature of purified water (measured in µS/cm or MOhm),
  - clock displaying date and time,
  - information about current system status,
  - alarm informing about necessity to replace ionex resins,
  - alarm informing about necessity to replace UV lamp,
  - alarm informing about necessity to replace microfiltration capsule,
  - graphic and sound alarm signal,
  - maintenance dates preview,
  - menu in English, Russian, Spain or Croatian language,
  - built-in RS 232 connection to personal computers allowing to adjust maintenance frequency and alarm levels,
  - built-in USB connection to personal computers allowing to adjust maintenance frequency and alarm levels.
- Software.
- Built-in manometer measuring feed water pressure.

**Functions protecting the device:**

- Pump shutdown when:
  - the feed water pressure is too low (lack of feed water) - low pressure sensor,
  - the tank is full - high pressure sensor.
- Thermal protection of the RO module, automated system shutdown when the feed water temperature is below 4°C or above 40°C.
- Can be automatically shut down when any alarm occurs.
- System autostart.
- Notification/alarm preview.

**Required connections:**

- Pressure min. 2 bar.
- 230V socket.
- Purified water fits the PN-EN ISO 3696: 1999, the ASTM, and the CLSI standards for the first purity class.
- Obtained water is microbiologically and physicochemically compliant with the FP standard for the purified production water.
- Obtained water may be used for: instrumental analyses AAS, ICP/MS, IC, HPLC, GC, bacteria cultures, biochemical analyses.

**Purified water parameters:**

- bacteria < 1 cfu/ml,
- particles > 0.2µm < 1/ml,
- conductivity < 0,055 mS/cm,
- resistance 18,2 MOhm\*cm.

<b>Model</b>	<b>Microfiltration MF 0,2µm</b>	<b>Module H7 TOC</b>	<b>UV lamp radiator 254 nm</b>
ULTRA	+	+	+
Lifetime	12 months	2000 dm <sup>3</sup> *	12 months**
<b>Cataloge no.</b>	<b>EM-SP-20</b>	<b>EJ-2000-1</b>	<b>EUV-254-HLP</b>

\*If feed water parameters are different (hard water) the shell live of the spare parts might be shorter!

\*\*Lifetime 12 months or 8500 hour