

ULTRA

Catalogue no.: DR-TOC-00




HYDROLAB[®]
WATER PURIFICATION SYSTEMS

Technical specification:

- System intended to be fed by purified water of II or III purity class, according to 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 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 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.

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

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

**Lifetime 12 months or 8500 hour