R 5 UV

Cataloge no. 5DR-TOC-UV

HYDROLAB®

Technical specification:
- Fed by tap water.
- Purification process stages:
    - sediment pre-filter 5µm,
    - integrated module (sediment-carbon-softening),
    - reverse osmosis,
    - demineralization on an spectrally clean ion-exchange TOC bed,
    - UV lamp 185/254 nm,
    - microfiltration capsule 0,45/0,2µm.
- System efficiency: min. 5 dm^3/h.
- Purified water conductivity < 0,055 µS/cm.
- Automated and unattended system performance.
- Water collection point – first purity class (PN-EN ISO 3696:1999, ASTM, FP) compliant with a microfiltration capsule 0,45/0,2µm.
- Mobile, adjustable inox arm holding water collection points – available adjustment ranges: up/down, front/back, left/right.
- The possibility of installing additional water intake point for general-purpose water (third class; PN-EN ISO 3696:1999).
- Equipped with a 10 dm^3 pressure tank for third class.
- Can be connected to other devices.
- Automatic shutdown when the tank is full or the filtrate valve is closed.
- Automatic ultrapure water recirculation between water collections (modes: continuous or periodic).
- Maintenance procedures may be performed by the user (easy disposable materials replacement).
- Flow rating of clear water min. 1 l/min.
- Intended to be fed by cold water: 5-40°C.
- Installation may be performed by the user.
- Acid-proof stainless steel (inox) housing.

Dimensions: 275x470x570 mm
Tank 10l: h. 390 mm, Ø 250 mm

Monitoring functions:
- The device is equipped with a microprocessor 24V automatics, that includes:
    - Color display screen with a Touch Panel function,
    - Conductometer measuring water pressure: feed, processed by reverse osmosis, and ultrapure (in µS/cm or MOhm),
    - Reading values compensated and uncompensated thermally,
    - Clock displaying date and time,
    - Actual system status information,
    - Alarm informing about necessity to replace initial cleaning modules,
    - Alarm informing about necessity to replace a UV lamp radiator,
    - Alarm informing about necessity to replace an ion-exchange module,
    - Alarm informing about necessity to replace RO module,
    - Alarm informing about necessity to replace a microfiltration capsule,
    - Membrane module retention level information,
    - Service dates display,
    - Tank fill level,
    - Menu in English, Russian, Germany, Spanish or Croatian on display,
    - RS 232 connector for service frequency and alarm levels adjustment,
    - USB connector for service frequency and alarm levels adjustment,
- Built-in feed water manometer.

Protection functions:
- Automatic 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 osmotic module performance protection, automatic system shutdown then the feed water temperature is below 40C or above 400C.
- Optional system shutdown if any alarm occurs.
- Optional system automatic start.
- System messages/monitoring alarms display.

Purified water parameters:

- 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.

Required connections in the installation place:

- cold tap water connection ½" or ¾",
- drainage,
- 230 V power socjet.

Model R	Sediment prefilter 5µm *	Module A2 *	Module H7 TOC*	Capsule microfiltration	UV lamp 185/ 254 nm**
R5 UV	+	+	+	+	+
Lifetime	6 months	6 months*	2000dm^3	12 months*	12 months
Cataloge no.	**EO-005-10**	**EO-MA-12**	**EJ-2000-1**	**EM-SP-20**	**EUV-185-254-0**

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

**Liftime 12 months or 8500 hour