SPRING 30UV

Cat. no: 30DS-TOC-UV

HYDROLAB®

WATER PURIFICATION SYSTEMS

Technical specification:

- The device works under tap water pressure.
- Water purification levels:
  - sediment filtration – prefilter 5µm,
  - module A (sediment-carbon-softening),
  - demineralization on a spectrally clean mixed ion exchange resin,
  - UV lamp 254 nm,
  - cascade microfiltration capsule 0,45/0,2µm.
- Automatic and unattended system operation.
- Equipped with a pump increasing feed water pressure.
- Two independ water intake points:
  1. Second purity class (PN-EN ISO 3696:1999, ASTM, CLSI) - nozzle reach min. 2 m, equipped with a pressure tank.
  2. First purity class (PN-EN ISO 3696:1999) - with a 0,2µm microfiltration capsule.
- System equipped with a 10 dm^3 pressure storage tank.
- Optional replacement with a bigger tank (40dm^3, 80dm^3 and more).
- The possibility of installing additional water intake point for general-purpose water (third class (PN-EN ISO 3696:1999)).
- Automated system shutdown when the tank is full.
- Optional connection to an autoclave, washer machine etc.
- User-performed maintenance procedures (easy disposables replacement).
- Intended to be fed by cold water: 5-40^{0}C.
- Energy consumption less than 100W.
- Optional user-performed device installation.
- Power supply: 220-240V/50Hz.

Dimensions (SxGxW): 235x470x570 mm
Tank 10l: height: 390 mm, diameter: 250 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 feed water, after reverse osmosis and purified water (measured in µS/cm or MOhm),
  - clock displaying date and time,
  - information about current system status,
  - information about the membrane module retention level,
  - alarm informing about necessity to replace module A,
  - alarm informing about necessity to replace ionex resins,
  - alarm informing about necessity to replace UV lamp radiator,
  - alarm informing about necessity to replace microfiltration capsule,
  - graphic and sound alarm signal,
  - maintenance dates preview,
  - tank fill level,
  - 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^{0}C or above 40^{0}C.
- Can be automatically shut down when any alarm occurs.
- System autostart.
- Notification/alarm preview.

Standard:
Water purified by the Spring device fits the requirements of the ISO 3696:1999, ASTM, CLSI standard for I* and II purity class, microbiological and physicochemical parameters match the FP requirements for purified production water

Application:
Obtained water may be used for instrumental analyses AAS, ICP/MS, IC*, HPLC*, GC, bacteria cultures*, biochemical analyses*.
*point with a 0,2µm microfiltration capsule

Required connections:
- cold water connection ½" or ¾",
- 220-240V socket,
- drain.

General information:
- fed by: tap water
- efficiency: min. 30 l/h
- conductivity: 0,06 µS/cm
- resistivity: 18,2 MOhm*cm
- bacteria < 1 cfu/ml*
- particles > 0,2 µm < 1/ml*

model	Sediment prefilter 5µm	Module A2	Modules H6TOC	MF capsule 0,2µm	UV Lamp radiator 254nm
SPRING 30UV	+	+	+	+	+
Lifetime	6 months*	6 months*	5000 dm^3**	12 months	8500 h
Cataloge no.	**EO-005-10**	**EO-MA-12**	**EJ-5000-1**	**EM-SP-20**	**EUV-254-HLP**

* The life of a filter cartridge can be affected by the flow, it's characteristic as well as the level and type of the contamination.
** * Volume of the purified water depends on the quality of the feed water, the maximum amount of the dissolved salt in the feed water - 1200 mg/l.