

HLP 20SP

Cat. no: DH-0020-SP




HYDROLAB®
WATER PURIFICATION SYSTEMS



Technical specification:

- The device works under tap water pressure.
- Fed by tap water.
- Water purification levels:
 - sediment pre-filter 5 μ m,
 - integrated module (sediment-carbon-softening),
 - reverse osmosis,
 - demineralization on a mixed ionex resin,
 - microfiltration cascade capsule 0,45/0,2 μ m.
- Efficiency min. 20-22 dm³/h.
- Demineralized water conductivity < 0,06 μ S/cm.
- Unattended and automated.
- 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 10 dm³ pressure tank.
 2. First purity class (PN-EN ISO 3696:1999 - with a 0,2 μ m microfiltration capsule).
- The possibility of installing additional water intake point for general-purpose water (third class (PN-EN ISO 3696:1999)).
- Mobile, adjustable inox arm holding water collection points – available adjustment ranges: up/down, front/back, left/right.
- Optional replacement with a bigger tank (40dm³, 80dm³ and more).
- Automated system shutdown when the tank is full.
- Optional connection to an autoclave, washer machine etc.
- Maintenance procedures may be performed by the user (easy replacement of disposables).
- Fed by cold water: 5-40°C.
- Power supply: 230V/50Hz.
- Can be installed by the user.
- Acid-proof stainless steel (inox) housing.

Dimensions (SxGxW): 235x470x570 mm

Tank 10l: height: 390 mm, diameter: 250 mm

Functions monitoring the device:

- The device is equipped with a microprocessor control and measurement system that includes:
 - LCD display screen 2x16 characters
 - conductometer measuring conductivity and temperature of purified water (measured in μ S/cm or MOhm),
 - reading values compensated and uncompensated thermally,
 - timer displaying current date and time,
 - alarm informing about necessity to replace sediment filter and module A,
 - alarm informing about necessity to replace ionex resins,
 - alarm informing about necessity to replace microfiltration capsule,
 - menu in English, Russian, Spanish or German,
 - maintenance deadlines preview,
 - built-in RS 232 connector for personal computers,
 - individual adjustment of maintenance frequency and alarm levels.
- Software.
- Built-in manometer measuring feed water pressure.

Functions protecting the device:

- Pump shutdown when:
 - feed water pressure is too low (lack of feed water) – low pressure sensor,
 - the tank is full – high pressure sensor.

Feed water parameters:

- Conductivity < 1200 $\mu\text{S}/\text{cm}$
- Pressure > 3,0 bar
- Temperature: 5-40°C
- Hardness < 250 mg $\text{CaCO}_3/\text{dm}^3$
- Fe < 0,2 mg/ dm^3

**Usage:**

Obtained water may be used for instrumental analyses AAS, ICP/MS*, IC, HPLC*, GC, bacteria cultures*, biochemical analyses* and for general-purpose research.

*point with microfiltration cascade capsule 0,45/0,2 μm

Required connections:

- cold tap water connection $\frac{1}{2}$ " lub $\frac{3}{4}$ "
- 230V socket,
- drain.

Models produced from April 2013 r.

model	Sediment prefilter 5 μm	Module A2	Module H6	MF capsule 0,2 μm
HLP20SP	+	+	+	+
Lifetime	6 months*	6 months*	5000 dm ³ **	12 months*
Cataloge no.	EO-005-10	EO-MA-12	EJ-5000-0	EM-SP-20

* 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.