

# HLP Smart

Cat. No: DH-0004-00



  
**HYDROLAB**®  
WATER PURIFICATION SYSTEMS

**Technical specification:**

- The device works under tap water pressure.
- Water purification levels:
  - sediment pre-filter 5µm,
  - integrated module (sediment-carbon-softening),
  - reverse osmosis,
  - double demineralization on a mixed ionex resin.
- Efficiency: ca 4 – 4,5 dm<sup>3</sup>/h.
- Demineralized water conductivity < 0,06 µS/cm.
- Unattended and automated.
- Mobile water intake point - second purity class (ISO 3696:1999) – with a demi water nozzle (min. 2 m reach).
- Additional water intake point - first class (ISO 3696:1999, EP - with a 0,2µm microfiltration capsule) – option.
- Mobile, adjustable inox arm holding water collection points – available adjustment ranges: up/down, front/back, left/right.
- System equipped with a 10 dm<sup>3</sup> pressure storage tank.
- Optional replacement with a bigger tank (40 dm<sup>3</sup>, 80 dm<sup>3</sup>).
- Automated system shutdown when the tank is full.
- Maintenance procedures may be performed by the user (easy replacement of disposables).
- Min. feed water pressure: 3 bar.
- Fed by cold water: 5-40°C.
- Power supply: 230V/50Hz.
- Can be installed by the user.
- Acid-proof stainless steel (inox) housing.

**Dimensions (width x depth x height):** 200x375x420 mm

Zbiornik 10 dm<sup>3</sup>: wys. 390 mm, średnica: 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 water (in µS/cm or MΩm),
  - reading values compensated and uncompensated thermally,
  - timer displaying current date and time,
  - alarm informing about necessity to replace module A,
  - alarm informing about necessity to replace ionex resins,
  - maintenance deadlines preview,
  - built-in RS 232 connector for personal computers,
  - individual adjustment of maintenance frequency and alarm levels.
- Built-in manometer measuring feed water pressure.

**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 0,45/0,2µm*

**Feed water parameters:**

- Conductivity < 1200 µS/cm
- Pressure > 3 bar
- Temperature: 5-40°C
- Hardness < 250 mg CaCO<sub>3</sub>/dm<sup>3</sup>
- Fe < 0,2 mg/dm<sup>3</sup>

**Required connections:**

- cold water connection ½" or ¾"
- 230V socket
- drain



Models produced from April 2013 r.

| model         | Sediment<br>prefilter 5 µm | Module<br>A2 | Module<br>H7            |
|---------------|----------------------------|--------------|-------------------------|
| HLP SMART     | +                          | +            | +                       |
| Lifetime      | 6 months*                  | 6 months*    | 2000 dm <sup>3</sup> ** |
| Catalogue no. | EO-005-10                  | EO-MA-12     | EJ-2000-0               |

\* 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.