

# HLP Smart

Cat. No: DH-0004-00



**Technical specification:**

- The device works under tap water pressure.
- Water purification levels:
  - sediment pre-filter 5 $\mu$ m,
  - 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  $\mu$ S/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 0,2 $\mu$ m 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  $\mu$ S/cm or MOhm),
  - 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 0,45/0,2 $\mu$ m*

**Feed water parameters:**

- Conductivity < 1200  $\mu$ S/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 1/2" or 3/4"
- 230V socket
- drain



Models produced from April 2013 r.

model	Sediment prefilter 5 µm	Module A2	Module 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.