

Cat. no: DH-0010-SP





## Technical specification:

- The device works under tap water pressure.
- Fed by tap water.
- Water purification levels:
  - sediment pre-filter 5µm,
  - integrated module (sediment-carbon-softening),
  - reverse osmosis,
  - demineralization on a mixed ionex resin.
  - microfiltration cascade capsule 0,45/0,2µm.
- Efficiency min. 10-12 dm<sup>3</sup>/h.
- Demineralized water conductivity < 0,06 µS/cm.
- Unattended and automated.
- Equipped with a pump 24V 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 dm<sup>3</sup> pressure tank.
  - 2. First c purity lass (PN-EN ISO 3696:1999 with a 0,2 $\mu m$  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 (40 dm<sup>3</sup>, 80 dm<sup>3</sup> 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 10I: 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 µS/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:

- Pomp 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 µS/cm
- Pressure > 3,0 bar
- Temperature: 5-40°C
- Hardness  $< 250 \text{ mg CaCO}_3/\text{dm}^3$
- $Fe < 0.2 mg/dm^{3}$

# 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 $\mu m$ 

# **Required connections:**

- cold tap water connection ½" lub ¾",
- 230V socket,

- drain.

# Models produced from April 2013 r.

model	Sediment	Module	Module	MF capsule
	prefilter 5µm	A2	H6	0,2μm
HLP10SP	+	+	+	+
Lifetime	6 months*	6 months*	5000 dm <sup>3**</sup>	12 months*
<b>Cataloge no</b> .	<b>EO-005-10</b>	EO-MA-12	<b>EJ-5000-0</b>	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.

