SMART 5

CAT NO: SM-0005-00

HYDROLAB®

WATER PURIFICATION SYSTEMS

Technical specification:

- system fed with tap water
- Water purification levels:
    - sediment pre-filter 5µm,
    - integrated module (sediment-carbon-softening),
    - reverse osmosis,
    - double demineralization on a mixed ionex resin.
- Efficiency: min. 5 dm3/h (daily: approx. 120 dm3) – at a minimum feed water pressure of 0.3 MPa
- Demineralized water conductivity < 0,056 µS/cm.
- Unattended and automatic operation
- Water intake point – water type 2 (ISO 3696:1999, ASTM, CLSI) – with a demi water nozzle (min. 2 m reach).
- Possibility to install additional water intake point – water type 1 (ISO 3696:1999, ASTM, CLSI) 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^3 pressure storage tank.
- Optional replacement with a bigger tank (40dm^3, 80dm^3)
- Purified water dispensing rate: min. 1-2 l/min.
- Automated system shutdown when the tank is full.
- Maintenance procedures may be performed by the user (easy replacement of consumables).
- Min. feed water pressure: 3 bar.
- Fed with cold water: 5-40°C.
- Power supply: 230V/50Hz.
- Can be installed by the user.
- Acid-proof stainless steel (inox) housing

Dimensions (WxDxH): 210x410x420 mm
Tank 10dm^3: (H) 390 mm, Ø 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 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.

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Application:

Purified 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.

List of consumables:

1. **Pre-filters**
   - 5µm sediment filter
   - A3 module

   Replacement every 6 months

2. **Ion-exchange cartridges**
   - H8 – ion-exchange module with capacity 2000ml

   Replacement after producing about 2000 dm3 of purified water

Required connections on site:

- cold water supply ½" or ¾",
- 230V socket,
- drain outlet

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