

TECHNICAL 40/C

Cat. No: DT-0040-0C



**Technical specification:**

- Works under tap water pressure.
- Water purification process levels:
 - sediment pre-filter 5µm,
 - carbon filter,
 - reverse osmosis.
- Device efficiency: 40 dm³/h.
- Equipped with a pump (increasing the feed water pressure) with automatics.
- Retention level: 97-99%.
- Unattended and automated.
- Equipped with a nozzle with a minimum range of 2 meters.
- Mobile, adjustable inox arm holding water collection points – available adjustment ranges: up/down, front/back, left/right
- Optional installing with a pressure tank.
- Automatic system shutdown when the tank is full or the filtrate valve is closed.
- May be used for making a demi water network with several water intake points.
- Maintenance procedures may be performed by the user (easy disposables replacement).
- Fed by cold water: 5-40°C.
- Power supply: 230V/50Hz.
- Can be installed by the user.
- Acid-proof stainless steel (inox) housing.

Dimensions: 275x470x570 mm

Functions monitoring the device:

- The device is equipped with a 24V automatics with a microprocessor control and measurement system, that includes:
 - color display screen with a Touch Panel,
 - conductometer measuring conductivity and temperature of feed water and after reverse osmosis (measured in µS/cm or MOhm),
 - reading values compensated and uncompensated thermally,
 - clock displaying date and time,
 - information about current system status,
 - information about the membrane module retention level,
 - alarm informing about necessity to replace mechanical and carbon filters,
 - alarm informing about necessity to replace RO module,
 - alarm informing about necessity to replace UV lamp (option),
 - graphic and sound alarm signal,
 - maintenance dates preview,
 - tank fill level,
 - built-in RS 232 connection to personal computers allowing to adjust maintenance frequency and alarm levels,
 - built-in USB connection to personal computers allowing to adjust maintenance frequency and alarm levels.
- Software.
- Built-in manometer measuring feed water pressure.

Functions protecting the device:

- Pump shutdown when:
 - the feed water pressure is too low (lack of feed water) - low pressure sensor,
 - the tank is full - high pressure sensor.
- Thermal protection of the RO module, automated system shutdown when the feed water temperature is below 4°C or above 40°C.
- Can be automatically shut down when any alarm occurs.
- System autostart.

**Purity class:**

Demineralized water fits the ISO 3696:1999A standard for third class of water purity (it depends on the quality of feed water, retention level is 97-99%).

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:

May be used for mediums, buffer solutions, reagents.

Can supply other laboratory devices: washers, analyzers, autoclaves, polishing systems etc.

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	Carbon filter 10"	UV lamp radiator 254nm
TECHNICAL 40/C	+	+	option
Lifetime	6 months*	6 months*	8500 h
Cataloge no.	EO-005-10	EW-001-10	EUV-254-HLP

* 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.