

# 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 dm<sup>3</sup>/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 µS/cm

Pressure > 3,0 bar

Temperature: 5-40°C

Hardness < 250 mg CaCO<sub>3</sub>/dm<sup>3</sup>

Fe < 0,2 mg/dm<sup>3</sup>

**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 ½" lub ¾"

- 230V socket,

- drain.

Models produced from April 2013 r.

model	Sediment prefilter 5µm	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.