

# TECHNICAL 40 / C Plus

Cat. no: DT-0040-DJC



**Technical specification:**

- Works under tap water pressure.
- Water purification process levels:
  - sediment pre-filter 5µm,
  - carbon filter,
  - reverse osmosis,
  - demineralization on a mixed ion-exchange bed.
- 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.
- One water intake point second/third class (ISO 3696:1999, ASTM).
- Purified water conductivity with optional regulation between 0,06 µS/cm and 15,00-20,00 µS/cm (the largest value depends on the quality of feed water).
- Mobile, adjustable inox arm holding water collection points – available adjustment ranges: up/down, front/back, left/right
- Possibility of equipment with a pressure tank.
- Automatic system shutdown when the tank is full or the filtrate valve is closed.
- Optional connection to a washer, an autoclave etc.
- 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.

**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 module A,
  - alarm informing about necessity to replace RO module,
  - alarm informing about the necessity to replace the ion-exchange cartridge,
  - 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.



- 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/ $\text{dm}^3$

**Purity class:**

Demineralized water fits the ISO 3696:1999A standard for II and III class of water purity

**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 1/2" lub 3/4",
- 230V socket,
- drain.

model	Sediment prefilter 5 $\mu\text{m}$	Carbon filter 10"	Module H6	UV lamp radiator 254nm
TECHNICAL 40 / C Plus	+	+	+	option
Lifetime	6 months*	6 months*	5000 dm <sup>3</sup> /**	8500 h
<b>Cataloge no.</b>	<b>EO-005-10</b>	<b>EW-001-10</b>	<b>EJ-5000-0</b>	<b>EUV-254-HLP</b>

\* Filter usage depends on the quality of feed water and on the amount of water collected. We do not recommend storing the filter longer than 4 months

\*\* lifetime 12 months or 8500 hours

\*\*\* lifetime depends on the conductivity adjustment