

TECHNICAL 20

Cat. no: DT-0020-0A





Technical specification:

- Works under tap water pressure.
- Water purification process levels:
 - sediment pre-filter 5 μ m,
 - integrated module (sediment-carbon-softening) – module A,
 - reverse osmosis.
- Device efficiency: 20 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.
- 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: 5-40⁰C.
- Power supply: 230V/50Hz.
- Can be installed by the user.

Dimensions [mm]: 235x470x570 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 μ S/cm or MOhm),
 - reading values compensated and uncompensated thermally,
 - timer displaying current date and time,
 - information about the membrane module retention level,
 - alarm informing about necessity to replace sediment filter and module A,
 - alarm informing about necessity to replace RO module,
 - alarm informing about necessity to replace UV lamp (option),
 - 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:

Pump shutdown when:

- feed water pressure is too low (lack of feed water) – low pressure sensor,
- the tank is full – high pressure sensor.

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 μ S/cm

Pressure > 3,0 bar

Temperature: 5-40⁰C

Hardness < 250 mg CaCO₃/dm³

Fe < 0,2 mg/dm³

Usage:

May be used for mediums, buffer solutions, reagents.

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



- Prefilters:

- Sediment prefilter 5µm,
- Module A

- UV lamp radiator

Required connections:

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

Models produced from April 2013 r.

| model | Sediment prefilter 5µm | Module A2 | UV lamp radiator |
|--------------|------------------------|-----------|------------------|
| TECHNICAL 20 | + | + | option |
| Lifetime | 6 months* | 6 months* | 8500 h. |
| Cataloge no. | EO-005-10 | EO-MA-12 | 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.

Models produced until April 2013 r.

| model | Sediment prefilter 5µm | Module H1 | Module H2 | UV lamp radiator |
|--------------|------------------------|-----------|-----------|------------------|
| TECHNICAL 20 | + | + | + | option |
| Lifetime | 6 months* | 6 months* | 6 months* | 8500 h. |
| Cataloge no. | EO-005-10 | EO-001-L | EW-001-L | EUV-254-0 |

* 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.