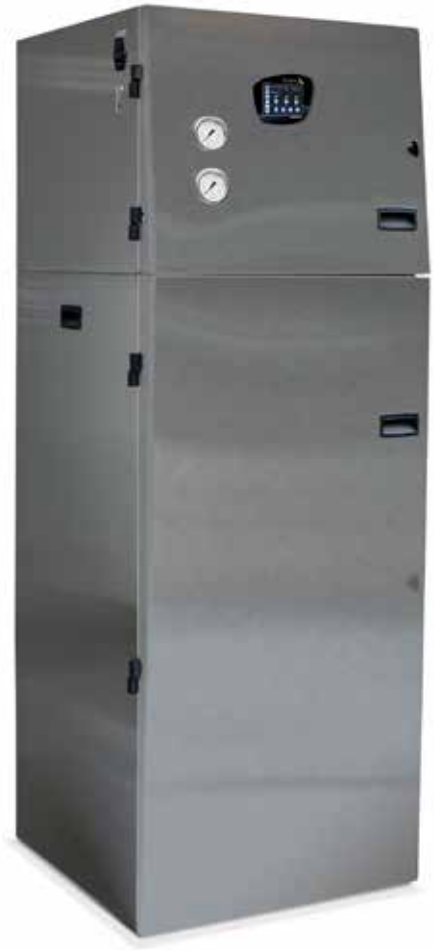
INDUSTRIAL TECHNICAL SYSTEM

Cat. No. TECHNICAL 200



LIGHTWATER
ultrapure

Technical specifications:

The device is supplied with tap water.

Degrees of water purification:

- filtration on sediment filters:
  cascade filtration on 20 µm and 5µm high efficiency sediment filters,
- filtration on carbon filters:
  filtration on granular activated carbon to remove organic compounds, chlorine and chlorine derivatives,
- softening process (option):
  automatic softening station - rinsing and regeneration of the bed is carried out automatically, compact construction - corrosion resistant ion exchange column (fiberglass tank) placed inside the salt casing, high capacity for removing hardness ions,
- reverse osmosis station:
  efficiency: 150 - 250 dm^3 / h (depending on the model), retention ratio 96-99%, recovery rate 60%,
  high pressure pump, retentate and permeate rotameters,
- UV lamp (option).

Automatic and maintenance-free operation of the device.

- Retention rate is 96-99%.
- Water intake point - third * purity class according to ISO 3696: 1999.
- Tank for storing purified water (capacity to choose).
- Automatic system shutdown when the tank is full or the water intake is closed.
- Can be connected to a dishwasher, autoclave, analyzer, etc.
- Possibility of creating a water distribution network with intake points covering several rooms or floors in a building.
- Control water intake points.
- Automatic membrane rinsing (possibility of individual setting of the period and time of membrane rinsing).
- Forced flushing of membranes (service).
- System designed for cold water supply: 5-40°C.
- Possibility of self service by the User (without having to call the service).
- Power supply: 230V / 50Hz.
- Stainless steel frame.

Functions monitoring system operation:

- The device is equipped with a microprocessor control and measuring system having:
  - color graphic display with Touch Panel function,
  - conductivity meter measuring the conductivity and temperature of tap water,
  - conductivity meter measuring the conductivity and temperature of purified water after reverse osmosis,
  - conductivity measurement in µS / cm or MOhm units,
  - automatic temperature compensation,
  - continuous control and preview of the degree of retention (degree of retention) of RO membranes,
  - clock displaying date and time,
  - alarm informing about mechanical and carbon filter replacement,
  - alarm informing about replacement of the RO module,
  - alarm informing about the UV lamp radiator replacement (option),
  - information about the tank filling level on the device display,
  - preview of service dates,
  - menu in Polish, English, Russian or Spain on display,
  - built-in RS 232 interface for communication with a computer ensuring the possibility of individual adjustment of service frequency and alarm levels,
  - built-in USB connector for communication with a computer ensuring the possibility of individual adjustment of service frequency and alarm levels,
  - computer program enabling individual settings of alarm thresholds and data archiving.

Functions securing the system operation:

- Interruption of system operation with:
  - low feed water pressure (no feed water),
  - a full tank / closed water intake point.
- Thermal protection of the osmotic module, automatic stopping of the system operation at the supply water temperature below 4°C or above 40°C.
- Ability to stop the system when any alarm occurs.

• System autostart capability.
• Preview of monitoring messages / alarms.

Purified Water Parameters:
Purified water in the device meets the requirements of ISO 3696: 1999 for waters of the third * degree of purity.
* depends on the quality of the feed water, the degree of retention is 96-99%

Additional equipment / services:
- tank for storing purified water:
    • pressure - option: 80 l, 110 l, 230 l, 320 l or 450 l,
    • pressureless - capacity to be agreed (on request).
- compact device housing made of stainless acid-resistant steel
  (all system components, except for the tank, installed inside the housing),
- tank housing made of stainless acid-resistant steel,
- full DQ, IQ, OQ, PQ qualification procedure with documentation,
- cooperation with building management systems (BMS).

Required connections at the installation site:
- cold tap water connection ¾„or 1",
- drain to sewage system (sewage grate),
- 230V socket.