INDUSTRIAL SPRING SYSTEM

Cat. No. SPRING 500







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: 400 600 dm³ / h (depending on the model), retention degree 96-99%, recovery rate 60%, high pressure pump, retentate and permeate rotameters,
- demineralization on a mixed ion exchange bed ion exchange column with a capacity of 25 dm³,
- UV lamp 185 / 254nm or 254 nm (option),
- 0.45 / 0.2µm microfiltration capsule (option).
- Automatic and maintenance-free operation of the device.
- Retention rate is 96-99%.
- Conductivity of purified water < 0.06 µS / cm.
- Water intake point second purity class according to ISO 3696: 1999.
- Possibility of installing an additional water intake point first class of purity according to ISO 3696: 1999 and in accordance with FP.
- Possibility to install an additional 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 when 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 meter measuring the conductivity and temperature of demineralized water,
 - conductivity measurement in µS / cm or M0hm 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 exchange of ion exchange bed,
 - alarm informing about replacing the UV lamp radiator (option),
 - alarm informing about the replacement of the microfiltration capsule (option),
 - information on the tank filling level on the device display,
 - preview of service dates,
 - menu in Polish,
 - 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 first, second and third degree water.

The water obtained meets the microbiological and physicochemical requirements of FP for purified production water *.

* system equipped with a UV lamp and a microfiltration capsule

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,
 - adjustment of conductivity value from 0.06 μ S / cm to 15 μ S / cm,
 - purified water recirculation,
 - 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 34,,or 1",
- drain to sewage system (sewage grate),
- 230V socket.

^{*}the life of the insert may change depending on the flow, its characteristics and the level and type of tap water pollution.

^{**} the volume of purified water depends on the quality of the feed water, the maximum amount of salts dissolved in the feed water - 1200 mg / I