Product factsheet

SLRO - 4000

Hardware product or technological device

Description

SLRO Series RO systems are specifically designed for easy operations and maintenance.

SLRO Series RO systems are simple to install, operate, and service, operation errors have been eliminated by the reliable SLRO “ Pulse Flush ” design which consistently produces water of the desired flow and quality with no operator adjustments. It is designed with a fixed recovery rate of 60-65% using only one extra-large flow RO membrane element that produces 4000 GPD (650 LPH) of permeate water flow.

Advantages

- Designed for simple and reliable operation with only
- One Power Button to operate.
- Automatic high-frequency Pulse Flush that replaces
- the need for conventional concentrate flow regulation.
- Compact Size and weight for easy transportation.
- SLRO XL-4040 membrane delivers the Largest Flow on the market.
- Patented C-5TM RO Controller with adjustable
- flush time for recovery rate adjustment.
- No regulation valves to avoid Misoperations from users.

SLRO-4000GPD Reverse Osmosis System

Standard Features

- RO micro-computer controller with permeate TDS readout.

- 300PSI stainless steel membrane housing+PE end caps.
- SLRO LPE 2-11 multistage pump.
- 20" - 5 micron sediment pre-filter x 1 .
- Rotek rotameters for permeate stream.
- Rotek pressure gauges for prefilter feed and RO feed.
- Danfoss low pressure switch.
- Electro-plated SS304 skid frame.

Optional Features

- Without Membrane
- FRP membrane vessel
- Oasis Wifi RO Controller (IoT)
- Custom Brand
- SLRO Pre-treatment w/wo Pump
- SLRO-6000 upgrade kit

Pulse Flush

It is the key feature that allows SLRO to be operating at a 100% recovery rate during the production cycle. During the flush cycle, the flush valve opens before the saturation of concentrated water reached the level when soft water or antiscalant can't prevent the scale formation anymore. Moreover, the sudden change of flow velocity across the membrane surface in such a short period of time causes water hammers that also help to shake off the foulants on the membrane surface in order to keep the membrane clean for a longer period of time.

URL

https://www.arcticbreeze.fi/membrane-filtration/slro-series-ro-system-pulse-flush

Technologies applied by the product

- **Water and Wastewater Engineering**
- **Water Quality and Standards**
- **Water recovery technologies for water reuse**

Related tags

water | wastewater | Wastewater reuse | Wastewater management