Product factsheet

SL HERO - 6000

Hardware product or technological device

Description

SL HERO-6000 is a patented and revolutionary piece of light industrial RO system that operates at a minimum 80% recovery rate. It is one of the first kind in the market that has 4 major unique features that allow the system to operate at its best performance and minimum footprint.

- Instead of having a constant flow of concentrated water, the system is designed with an automatic Permeate Pulse Flush
- It is equipped with exclusively made 4040 membranes which have the highest permeate flow rate (5000GPD) on the market
- Due to the high recovery rate design, the need for pre-treatment size has also been reduced. Sedimentation, dechlorination and superior quality of Avista antiscalant are included on the same system skid with a Compact Footprint.
- SL HERO-6000 is also equipped with Oasis Wifi RO Controller that enables users to monitor historical data of RO system operations via smartphones or computers.

What is Permeate Pulse Flush?

Conventional RO involves a steady flow and stable salt concentration during its continuous and uninterrupted production cycle. Which allows organic and inorganic matters to have stable condition to develop foulants on the membrane surface over period of time.

Permeate Pulse Flush basically opens brine solenoid valve for short period of time to discharge highly concentrated water when its saturation reached to the level that antiscalant

can't handle. RO permeate water enters the system during pulse flush, which enhances its flush efficiency to recover the membrane to a fresh new state. This process will repeat over and over again to ensure the longer life-span of the membrane and also reduce waste dischage.

URL

https://www.arcticbreeze.fi/sl-hero-series-ro-system-high-recovery

Technologies applied by the product

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

Related tags

water | water efficiency | Wastewater management