

# More Solutions for More Production

## enerscope Self-Cleaning Screen

**Enerscope self-cleaning filters are automatic self-cleaning screens that operate continuously without interrupting system flow or the requirement for duplicate equipment. Designed for very high efficiency solids removal - even light and floatable debris.**

**Fast, Efficient Self-Cleaning Technology**  
For Continuous Flow of Filtered Water.

These units are **heavy duty, automatic, self-cleaning screens** that are designed for **2,000 to 400,000 bbl/d per unit** and **filters down to 1 $\mu$**  using various sized screens.

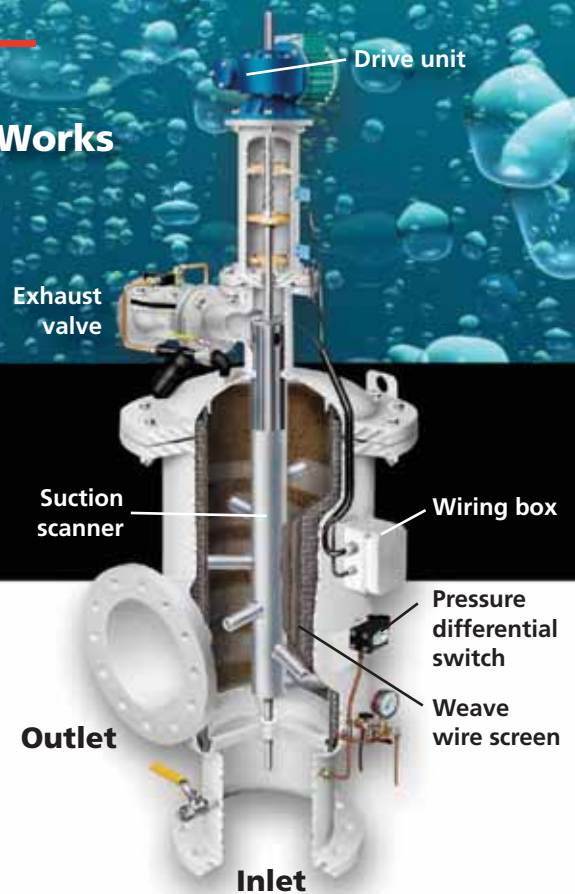
The cleaning mechanism, a focused, suction scanning technology, keeps the units in operation and cleans without interrupting systems flow. This is new technology, not previously available in automatic screening systems.

Self-cleaning is performed only when needed. This technology improvement results in minimal

usage of liquids (a fraction of a percentage) and energy savings.

Ideal for a final polishing filter for most produced water and pipeline flushing applications. It is also used for pretreatment for UV and membranes for potable water systems on platforms and FPSOs as well as boiler feed water for SAGD.

### How It Works



## Key Features

- Designed and constructed to all industry standards such as ASME (section VIII, Div I), ANSI, CRN, PED and NACE among others for your specific application
- Independently tested
- Self-cleaning technology **saves maintenance time and cost**
- Uninterrupted water supply: cleans in seconds without interrupting downstream flow **eliminated need for duplication of equipment**
- Low fluid loss **reduces downstream treatment**
- Real-time self-cleaning filters: clean automatic when head-loss reaches present value for **easy system design**
- Flexibility of control options: hydraulically or electronic control for **more design flexibility**
- Low and steady pressure loss **saves energy and provides and predictable flow rates and operating system**
- Choice of profiles to accommodate space and piping limitation making for **an easy layout and installation**
- In-line inlet and outlet configuration for **simplified piping**
- Systems and skidded units available

## General Specifications

*ESS Model selection and design is done by your sales engineer and factory based on: water source & quality (TSS & PSD); flow rate; pressure; temperature; filtration degree required; utilities available; and, space limitations.*

- Minimum Flow Rate: 2,000 bbl/d (13 m<sup>3</sup>/hr)
- Minimum Working Pressure 35 psi (2,4 bar)
- Maximum Flow Rate (per unit): 400,000 bbl/d (2,650 m<sup>3</sup>/hr)
- Maximum Working Pressure: 260 psi (18 bar)
- Maximum Working Temperature: 200 F (93 C)
- Maximum Inlet/outlet Diameter: 24-inches
- Maximum Unit Weight (empty): 5,000 pounds (2,268 kg)
- Maximum Volume Full: 17 bbl (2,839 liters)
- Maximum Exhaust Valve: 4-inch
- Minimum Flow for Flushing per Cycle: 5 bbl/m (50 m<sup>3</sup>/hr)
- Maximum Flow for Flushing per Cycle: 20 bbl/m (200 m<sup>3</sup>/hr)
- Maximum Flush Water per Cycle: 12 bbl (1,999 liters)
- Average Flush Cycle Time: 30 Seconds
- Maximum Motor Size: 0.5 HP
- Screen: 10 to 800 micron (Dutch Weave Wire)
- Filtration Surface Area (per unit): up to 6,200 in<sup>2</sup> (40,000 cm<sup>2</sup>)
- Screen is 316L or SMO-254
- Pressure loss range: 1-10 psi (0.07-0.7 bar)
- Carbon Steel with FBE or 316L Stainless Steel is standard construction
- Special coating and other materials available
- Exterior finish is Powder Coated, Minimum 2 Lifting Lugs

## HERE ARE A FEW OF OUR COMMON APPLICATIONS:

ESP & PCP Pump Protection **Pipeline Flushing & Testing** FWKO SAGD Produced Water Desanding  
**Waterflood Injection** Frac Water Brine Filtration Fire Water Protection **Offshore Production** Seawater  
Disposal Wells Heat Exchanger Protection **Secondary Recovery** Tertiary Recovery & Treatment  
Process Cooling Water Pump Seal Protection Subsea Production **Wellhead Desanding**

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