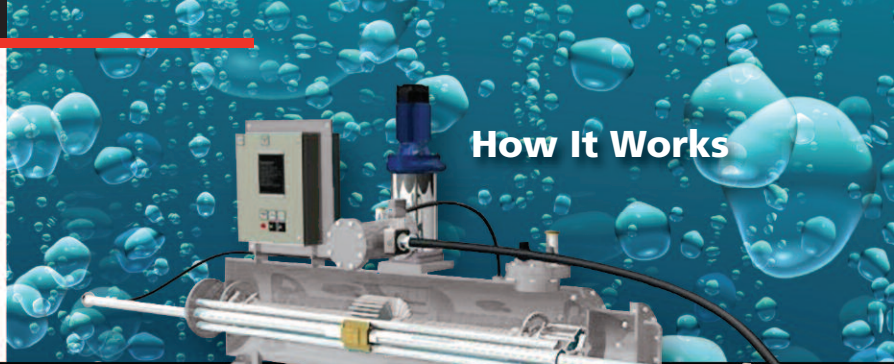


# More Solutions for More Production



How It Works

## enerscope Self-Cleaning Ultra Fine Filter

**Enerscope offers innovative, self-cleaning microfiber filters without cartridge replacement.**

Textile fibers have been used for fine filtration in the disposable cartridge filter market; however, Enerscope has advanced the use of fibers with its thread filter technology as a self-cleaning depth filter system.



Enerscope self-cleaning filters are **automatic self-cleaning polishing filters**. Designed for **very high efficiency solids removal** – even light and floatable debris that is submicron.

**Fast, Efficient Self-Cleaning Technology.** These units are heavy duty, automatic, self-cleaning depth filter cartridges that are designed for 2,000 to 45,000 bbl/d per unit and filters at 1 $\mu$  (and larger) using self-cleaning thread filters within a cassette assembly.

System captures sediment in microfibers tightly wound around cartridges, and then automatically cleans itself with a high-velocity stream of water deflected off the cartridges.

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 applications. It is also used for pretreatment for RO, UF, NF, and UV and membranes for potable water systems on platforms and FPSOs.





## Key Features

- Designed and constructed to all industry standards such as ANSI, CRN, PED and NACE among others for your specific application
- Independently tested
- Certified for California Title 22
- Self-cleaning technology **saves maintenance time and cost**
- Low fluid loss **reduces downstream treatment**
- Real-time self-cleaning filters: clean automatically 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**
- Systems and skidded units available

## General Specifications

*ESF 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: gravity
- Maximum Flow Rate (per unit): 45,000 bbl/d (300 m<sup>3</sup>/hr)
- Maximum Working Pressure: 260 psi (18 bar)
- Maximum Working Temperature: 104 F (40 C)
- Maximum Inlet/outlet Diameter: 4-inches
- Maximum Unit Weight (empty): 5,000 pounds (2,268 kg)
- Maximum Volume Full: 7.5 bbl (1,200 liters)
- Maximum Exhaust Valve: 4-inch
- Minimum Flow for Flushing: 0.6 bbl/m (5.9 m<sup>3</sup>/hr)
- Maximum Flow for Flushing: 2.1 bbl/m (20 m<sup>3</sup>/hr)
- Maximum Flush Water per Cycle: 31 bbl (4,997 liters)
- Average Flush Cycle Time: 10 Minutes
- Filtration Surface Area (per unit): up to 57,360 in<sup>2</sup> (370,100 cm<sup>2</sup>)
- 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

## ENERSCOPE SYSTEMS IS YOUR SOURCE FOR FILTRATION SYSTEMS.

Enerscope Systems Inc. is a supplier of advanced, technology-based products that offer solutions to the oil & gas industry from the wellhead and downhole to refining and distribution. We are your local sales, service, design, and start up source anywhere in the world.

With decades of experience in oilfield engineered solutions, Enerscope Systems Inc. provides the best solutions to meet your individual project requirements. Our experience, coupled with our flexibility as systems integrators, have provided us with the capability to offer the most effective solutions for produced water and wastewater applications.

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