

About Us

Light Environmental, Inc. is a full-service solution provider for state-of-the-art wastewater treatment and water recycling systems. We lead the **Commercial Saltwater Disposal Industry** with our cost-effective solutions.



Water Recovery & Reuse

Industry leaders in Oil and Gas, our treatment systems are skid mounted, interconnecting one with the other two systems provide a complete solution in water, free oil, soluble hydrocarbon, and strategic metal recovery. We have developed automated systems that remove solids to less than 0.03 micron for oil and water without slowing or shutting down the process.

LightEnvironmental
Worldwide experts in wastewater treatment

LIGHT ENVIRONMENTAL, INC.

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Produced Saltwater Filtration System

EF30M & EF50M



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EF30M Microfiltration Unit



The EF30M Microfiltration System is a highly efficient, automated filtration system that is ideal for applications requiring small particle filtration with high Total Suspended Solid (TSS) loads.

The EF30M brings together the benefits of crossflow filtration and two integral cleaning mechanisms - ultrasonic generation and high-pressure back pulsing.

Made with high quality stainless steel, the unit comes with a range of filter element sizes, which operate with low maintenance.

The EF30M is rated for flows up to 220 gpm or 7,500bbls per day, depending on water quality.

- **Designed for ease of maintenance, long runtimes, and efficient operations.**
- **Replace filter screens with hand tools.**

EF Microfilter



The EF Microfilter skid is fully automated with variable speed controls enabling the operator to set processing flow designs at the most efficient treatment capable out of the highly user-friendly filter, with controls made by Allen Bradley and special features only available with the latest micro-processing technology today.

The general working principals of the filter is crossflow at a high velocity, patent-pending pressure controls with ultrasonic cleaning and air pulse.

We expect up to 5-10% reject rates for the tightest filter element, down to less than 1%, dependent upon incoming solid concentrations.

Note: all images are for reference only; the completed system may differ.

EF50M Microfiltration Unit



The EF50M4 is built to have the capacity to install 4 microfilter processing stainless steel (SS) filtration units, with a minimum of 20 additional horsepower on the drive pump, larger valving using schedule 80 PVC piping with flow rates up to 15,000bbls/day, doubling the flow of the EF30M skid.

Each EF30M system is 108" long by 72" wide, with fork tubes in both directions and weighs approximately 5,000 lbs.

Water Connections:

Inlet Header: 6" flanges

Outlet Header: 6" flanges

Concentrator Header: 4" flanges

Drain: 2" FPT

Rupture Disk: 4" flange

Electrical Connections:

460V / 3 PH / 60 Amp supply to skid panel, responsibility of customer
Estimated operational requirements of 20-25 amps per unit.