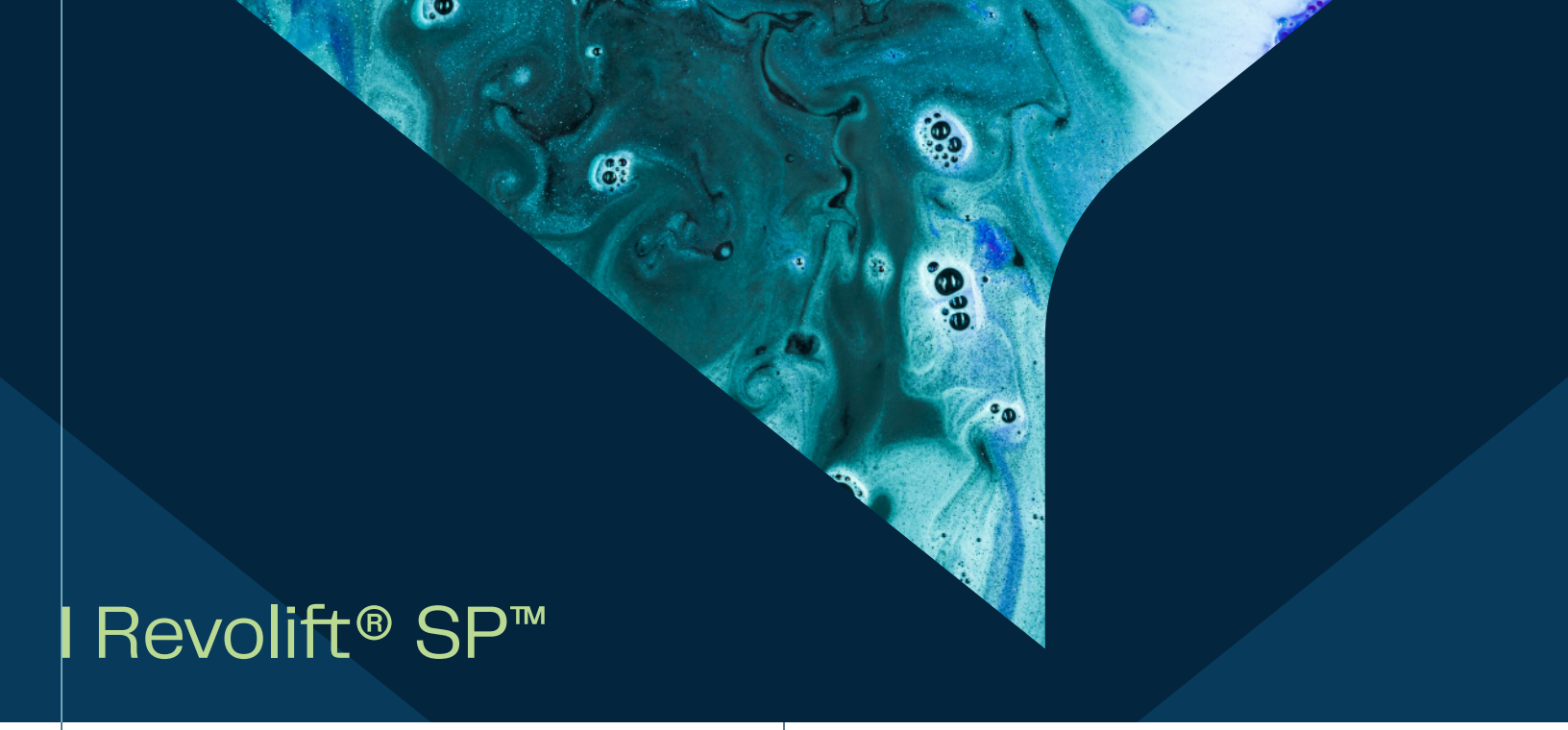


Revolift® SP™

Secondary Produced Water Deoiling

Designed to cater to the shale play market, the Revolift® SP™ is a reduced cost version of its sister product, the Revolift VS®. Utilizing Enerflex's patented Microbubble Flotation (MBF®) technology, the Revolift SP floats out contaminants separately from oil allowing for efficient oil recovery. The entire solution is trailer mounted for quick shipping, installation, and commissioning with minimal engineering and site preparation. A single mobile unit can handle flow rates up to 25,000 BWPD with a wide turndown range, high tolerance for upsets, and nonstop performance.

How It Works

The Revolift SP uses hydrodynamics coupled with MBF and strategic chemical injection ports to optimize oil-in-water and contaminate separation. Produced water enters the chambers sequentially as microbubbles and chemicals are introduced. The first chamber lifts and removes oil while the following chambers remove iron precipitates. Oil and iron precipitate are lifted up on the bubble layer and skimmed off. The weir is segregated into two chambers to separate the clean oil skimmings from the solid sludge. This process drives itself hydraulically through all chambers and water exits the system at targets as low as <10 ppm OIW, <5 ppm iron precipitate, and >250 mV ORP.

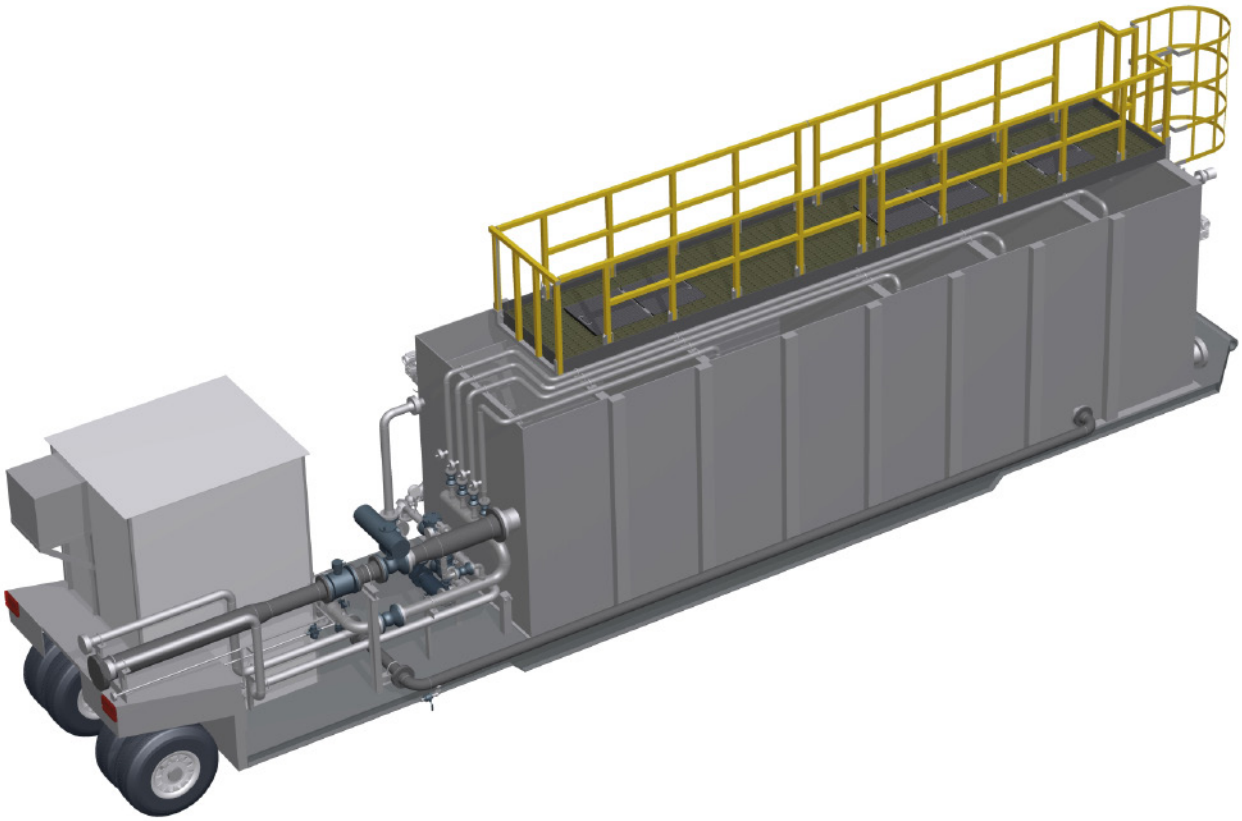
Key Benefits

Cost Saving

- Pre-engineered design
- Fleet inventory allows for quick turnaround and simple deployment logistics leading to lower capital costs
- Substantially lower tie-in costs compared to high-spec systems
- Lower chemical consumption resulting in reduced chemical costs
- Open tank design eliminating the need for a blanketing system

Better Performance

- Oil and sludge are skimmed and pumped out separately
- 5 chamber flotation tank eliminates short circuiting and handles slugs
- High tolerance for process changes due to multi-chamber design with no short-circuit paths



Flexibility

- Compact, self-contained design is easy to ship, install, and commission
- Ability to treat difficult fluids such as frac flow back applications
- Modular design quickly connects to our desanding and filtration products, if required
- Remote monitoring and operation
- Autonomous operations and shutdowns through built-in PLC offering various control philosophies
- Quick delivery to move operations forward and achieve goals sooner

Standard Features

- Motor-driven paddle skimming
- MBF technology via Onyx® Pump
- Dedicated clean oil collection chamber and transfer pump for oil recovery
- Separate sludge collection and transfer pump
- Instrumentation and PLC for full automation with various control options including remote monitoring and data acquisition

Materials of Construction

- Tank: internally coated carbon steel
- Piping: FRP
- Instruments: 316 SS wetted parts
- Onyx Pump: Duplex SS

Standard Options

- Water characterization services
- Chemical selection and supply
- Ancillary equipment such as transfer pumps and chemical injection

Contracting Models

- Lease
- Purchase
- Contract Operations
- Purchase + O&M

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