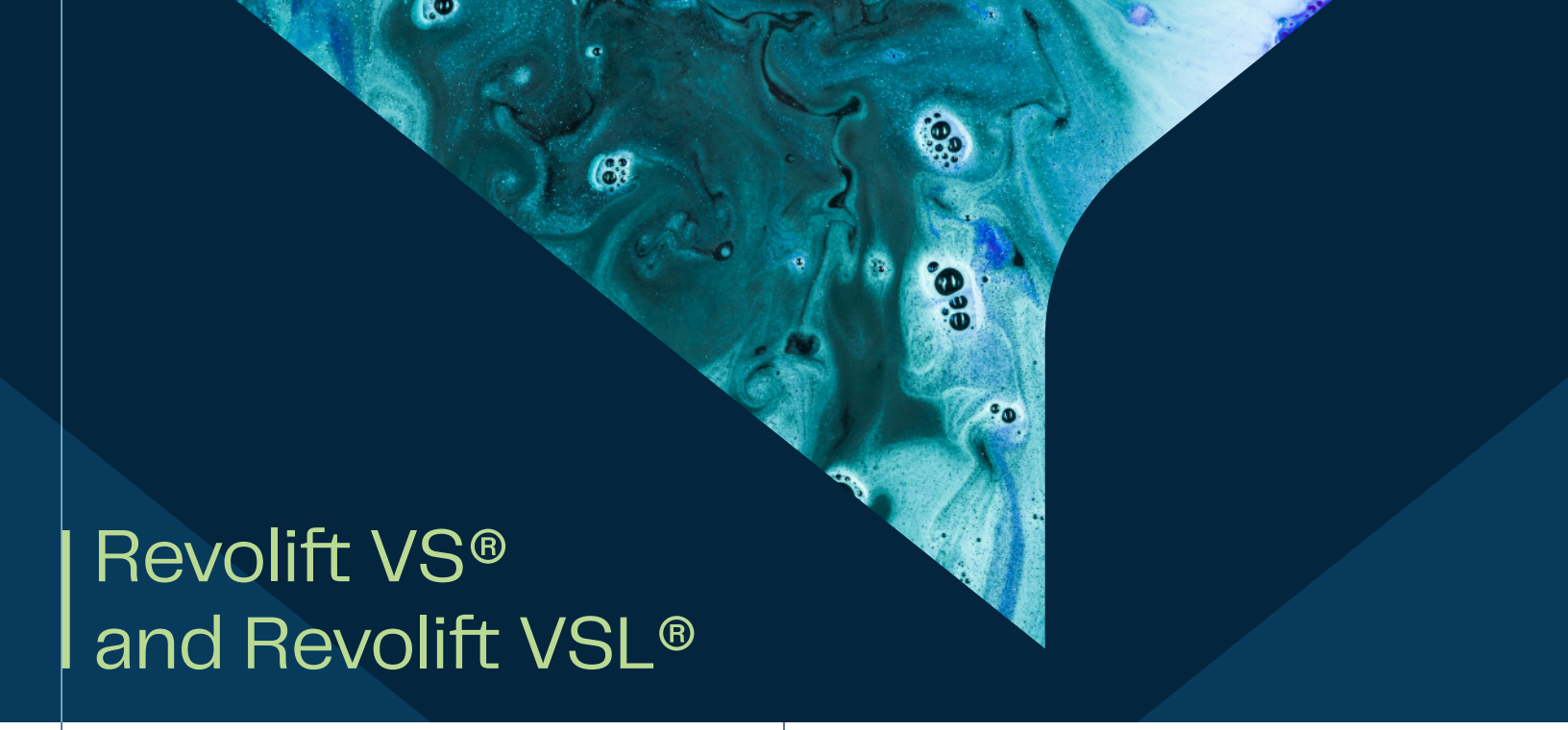


Revolift VS® and Revolift VSL®

Secondary Produced Water Deoiling

The Revolift VS® and Revolift VSL® (low flow) provide the performance of high-spec induced gas flotation (IGF) system at a fraction of the cost. The units utilize Microbubble Flotation (MBF®) technology to deliver flow rates up to 5,000 BWPD (VSL) and 25,000 BWPD (VS). Each unit is housed in a standard 20-foot (VSL) and 40-foot (VS) ISO container, allowing for quick shipping, installation, and commissioning with minimal engineering and site preparation. The system drives itself hydraulically with no internal moving parts resulting in a wide turndown range, high tolerance for upsets, and nonstop performance.

How It Works

The Revolift VS and VSL use hydrodynamics coupled with MBF to optimize oil-in-water (OIW) separation. The multi-chambered design has no internal moving parts and requires no mechanical adjustments. Produced water enters the chambers sequentially as microbubbles are introduced. Microbubbles lift the oil to the surface and it is skimmed off by overflowing an oil weir. The water then flows into the next chamber where more microbubbles are introduced and more oil is separated. The process drives itself hydraulically through all chambers, and water exits the system achieving OIW targets as low as <10 ppm.

Key Benefits

Cost Saving

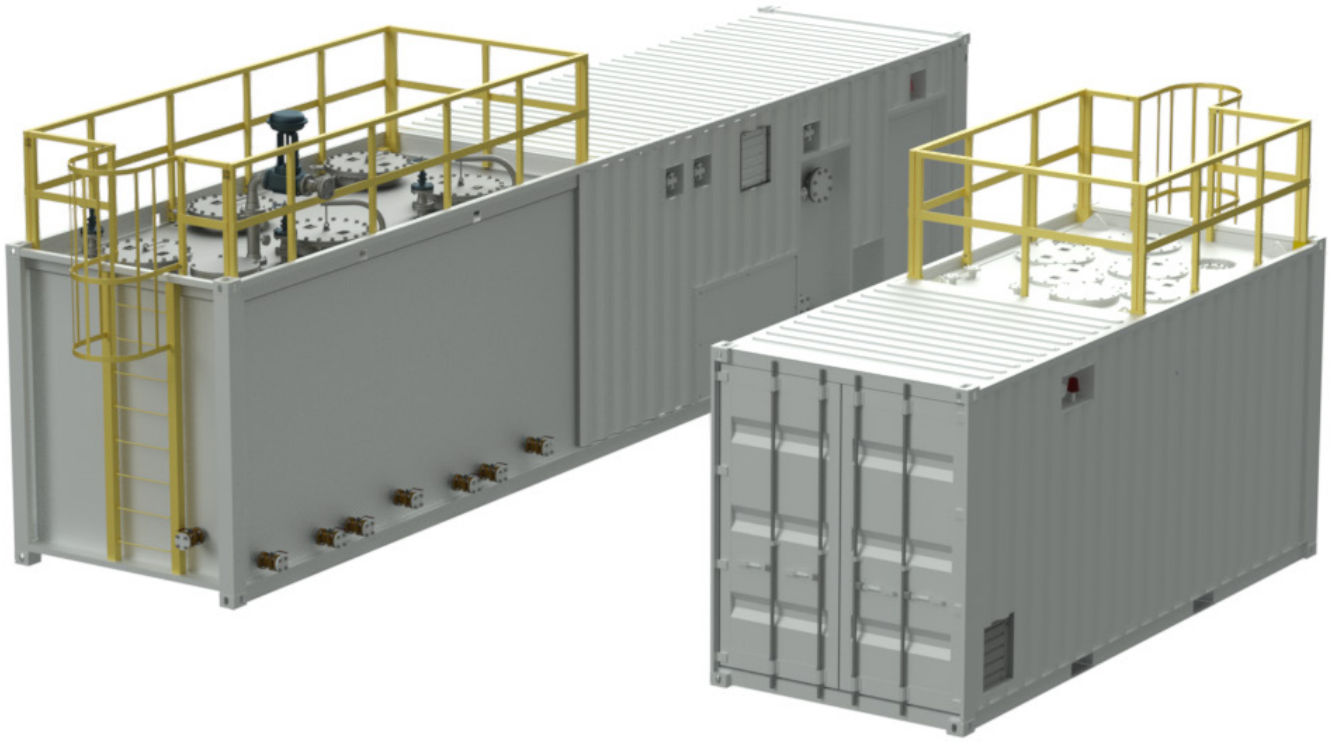
- Significant operational flexibility at lower cost compared to high-spec systems
- Substantially lower tie-in costs compared to high-spec systems
- No moving parts within the tank, reducing costly failures and delays

Better Performance

- Significant operational flexibility vs. high-spec systems at a much lower cost
- Wide turndown range handles variable flows without performance loss
- High tolerance for upsets due to multi-chamber design with no short-circuit paths

Flexibility

- Compact, self-contained design is easy to ship, install, and commission
- Autonomous operation through built-in control panel, or run ethernet to your DCS for longer-term projects
- Remote monitoring and operation
- Quick delivery to move operations forward and achieve goals sooner
- Ability to treat difficult fluids such as polymer and frac flowback applications



Standard Features

- Hydraulic skimming
- MBF technology via Onyx® pump for VS
- MBF technology via Gas Liquid Reactor (GLR®) for VSL
- Built in skimmings collection tank
- Skim oil transfer pump
- Instrumentation and PLC for full automation with various control options
- Complete process review

Materials of Construction

- Tank: internally coated carbon steel
- Non-Pressurized Piping: FRP
- Pressurized Piping: FRP/Duplex 2205
- Instruments: 316 SS wetted parts
- Onyx pump: Duplex SS
- GLR vessel: Duplex 2205

Standard Options

- Water characterization services
- Chemical selection and supply
- Ancillary equipment such as transfer pumps and chemical injection
- Insulation
- Computational fluid dynamics modeling

Contracting Models

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

Revolift VS®, Revolift VSL®, MBF®, Onyx®, and GLR® are registered trademarks of Exterran Water Solutions ULC, a wholly owned subsidiary of Enerflex Ltd, in Canada, the United States, and other countries.

This brochure is intended for general information purposes only and is not intended as a representation or warranty of any kind, or as a statement of any terms or conditions of sale. The information herein is believed to be correct, but is not warranted for correctness or completeness, or for applicability to any particular customer or situation. © 2026 Enerflex Corporation. All Rights Reserved.