

Revolift® CGFT™

Secondary Produced Water Deoiling

Enerflex's Revolift® CGFT™ (Compact Gas Flotation Tank) is unparalleled in the industry when it comes to efficiency and dependability. With a much smaller footprint as compared to typical induced gas flotation (IGF) systems, the CGFT is a key element in your produced water treatment process. As produced water moves continuously through multiple chambers, our patented microbubble flotation (MBF®) technology allows for a highly efficient removal of sheared oils. The CGFT system is purely hydraulic with no internal moving parts, giving continuous, trouble-free separation in a single tank ranging in flowrates from 10,000 to 100,000 BWPD.

How It Works

Oil-in-water separation is optimized by coupling fluid hydraulics with microbubble flotation. Microbubbles are introduced sequentially as produced water enters each chamber. Oil droplets are lifted upon the bubble layer and 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. In the Revolift CGFT, velocities are directed centrifugally throughout each chamber to avoid short circuiting and reduce retention time.

Key Benefits

Cost Saving

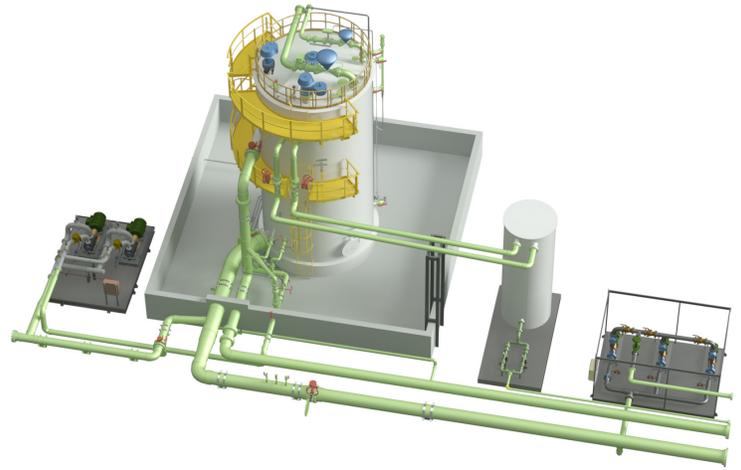
- Shop built tank, designed for easy tie in and low install cost
- Simplified engineered design for lower CAPEX

Better Performance

- Multi-chambered design handles variable flows, pitch and roll, and upsets without performance impact or short-circuiting problems
- Easy to maintain with no moving parts, no failure-prone mechanisms, and reduced fugitive emissions

Flexibility

- Wide turndown range handles variable flows without performance loss
- Wide operating range handling variations in inlet water qualities
- Transportable, shop built tank is easy to ship, install, and start up
- Ideal for temporary as well along term projects



Standard Features

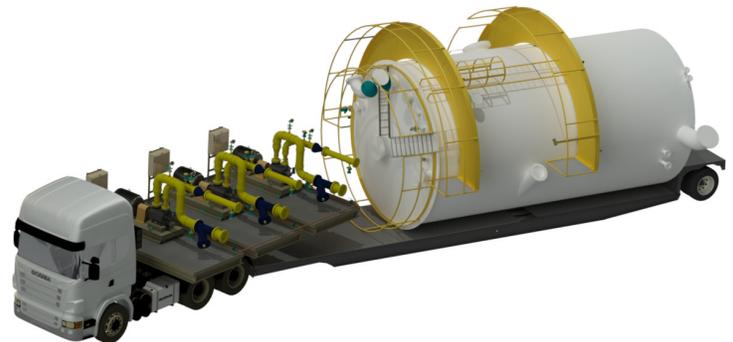
- Microbubble technology via ONYX® Pump or Gas Liquid Reactor (GLR®)
- API vertical tank design code
- Hydraulic skimming
- Piping, valves, and cabling between inlet and outlet of unit
- Instrumentation and controls for full automation with PLC based controls

Materials of Construction

- Tank: internally coated Carbon Steel, Stainless Steel, Duplex SS, or FRP
- Piping: internally coated Carbon Steel, Duplex SS, or FRP
- Instruments: 316 SS wetted parts
- ONYX Pump: Duplex SS
- GLR vessel: Duplex 2205

Standard Options

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



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. © 2024 Enerflex Corporation. All Rights Reserved.