

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 the 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 BWPD to 100,000 BWPD.

How It Works

Oil-in-water separation is enhanced by a highly optimized flow pattern utilizing MBF. Microbubbles are introduced sequentially as produced water enters each chamber and oil is lifted to the surface where 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. In the Revolift CGFT, the flow path created eliminates short-circuits and dead zones, resulting in maximum utilization of the low retention time.

Key Benefits

Cost Saving

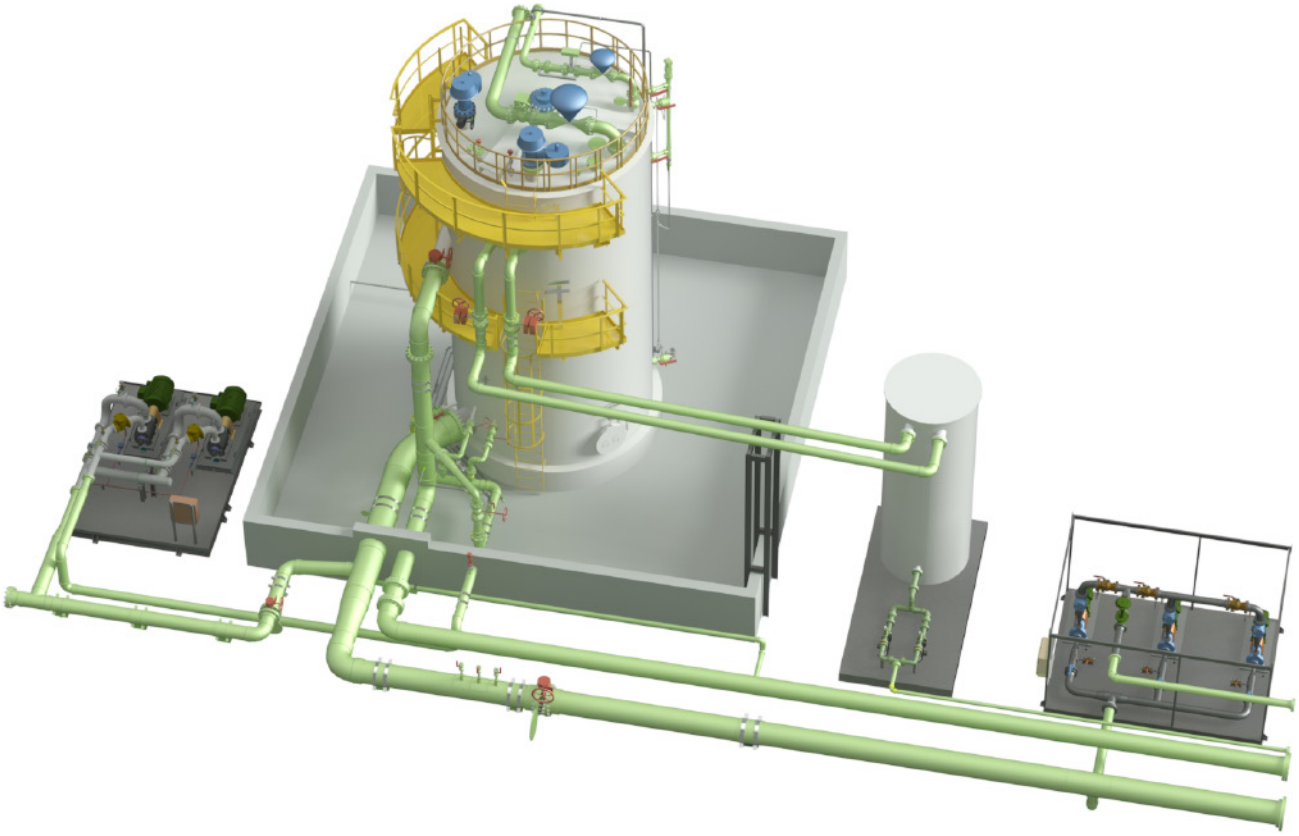
- Shop built tank, designed for easy tie in and low install cost
- Simplified engineered design for lower CAPEX

Better Performance

- Multi-chambered design handles variable flows 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
- Transportable, shop built tank is easy to ship, install, and start up
- Ideal for temporary as well as long-term projects



Standard Features

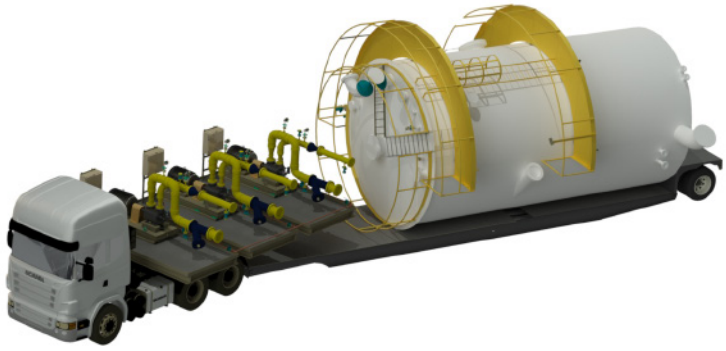
- MBF technology via Onyx® Pump or Gas Liquid Reactor (GLR®)
- API 12F or API 650 tank design codes
- Hydraulic skimming
- Piping, valves, and cabling between inlet and outlet of unit
- Instrumentation and controls for full automation with PLC based controls

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
- Upgraded materials for vessel, pumps, valves, and piping (316SS, DSS, etc) to meet site requirements



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