



WaterWolf™

Dynamic Oil Recovery System (DOR)

Fit-and-forget water treatment system ideally suited to dynamic and challenging process conditions

Our WaterWolf™ Dynamic Oil Recovery (DOR) system brings together core technologies from the NOV portfolio, including low/no shear pumps, TORE, Mare's Tail®, and ADOHC hydrocyclone technologies to create a system capable of delivering reliable mechanical deoiling and suspended solids removal. The system is ideally suited to shear sensitive fluids that lack adequate pressure to be processed using hydrocyclone (or other) types of treatment technologies; the DOR also addresses the fundamental problem of integrating cyclonic treatment technologies to processes where extreme and rapid turndown requirements exist. The system can be delivered as component parts integrated into client facilities or as a skid-mounted unit for ease of transit. Advanced monitoring systems can also be implemented to optimize performance and maintenance requirements such as backwashing or solids removal. For extremely challenging fluids, our anti-fouling technologies can be integrated into the system design to handle all kinds of production debris, scales, and schmoos.

Benefits:

- No/Low shear pumping solution, droplet coalescence can be augmented with our Mare's Tail® pre-coalescer.
- Optimum deoiling and solids removal performance at all times; no dependence on water feed flow rate and operation at full turndown.
- Simple control system requires little to no operator intervention once operating.
- Chemicals generally not required.

Applications:

- Saltwater disposal facilities.
- Onshore and offshore production sites.
- Oil recovery from remote water collection/frac water tanks.
- Low pressure, shear sensitive systems.
- Mobile water treatment.

Features:

- Saltwater disposal facilities.
- Can be skid mounted.
- Driven by Low/No shear pumps
- Configurable to include solids removal, droplet pre-coalescence, and anti-fouling technologies, if required.
- Can be integrated into systems with additional technologies, such as NOV's flotation products.
- Core technology can be retrofitted into existing applications.

