

Oil-Water Separators (OWS)

Oil-water separators provide maintenance-free corrosion protection

Just as in all fuel applications, when water is mixed with oils or fuels in a tank, the inherent corrosion resistance of fiberglass is even more beneficial. Fiberglass tanks require no special linings or cathodic protection. This eliminates the need for the costly, ongoing maintenance required for other tank materials.

Coalescing technology provides superior separation

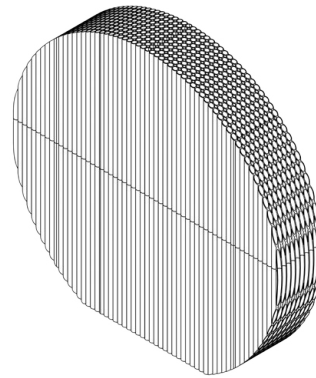
With a fiberglass underground tank at the heart of the OWS design, internal components create a separator that removes free-floating oils and settleable solids from oil-water mixtures. Using coalescing technology, they produce effluent quality to meet customer and regulatory requirements for water runoff.

Coalescers have better separation and flow rates than same-sized gravity separators.

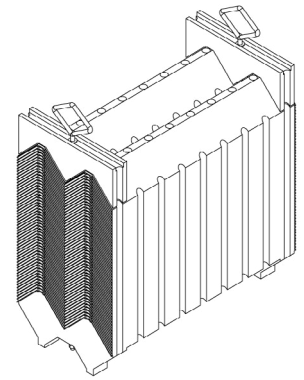
Oil-water separators with coalescing-plate technology

Corrugated polypropylene plates provide oil-droplet coalescing. The angled-plate pack system provides a maximum amount of coalescing surface area. With no moving parts, the coalescing pack can be cleaned in place and removed with lifting rods when a deeper clean is required.

- Attains minimum effluent quality of 10ppm
- Influent oil specific gravity must be between .68 and .95
- Removes free-floating oil droplets to a size of 20 microns or larger
- Available as CAN/ULC S656-listed model



Vertical-tube coalescer



Coalescing plates

Oil-water separators with vertical-tube coalescing media

The polypropylene vertical-tube matrix attracts small oil droplets. The oil-laden tubes provide additional surface area to attract more oil. The Xerxes tank's clean-water collector and inlet diffuser direct flow and minimize turbulence, allowing for efficient separation.

- Attains minimum effluent quality of 10ppm
- Influent oil specific gravity must be between .68 and .95
- Removes free-floating oil droplets to a size of 20 microns or larger
- Available as UL 2215-listed model

Key Features

Designed to withstand **H-20/HS-20 axle loads**

Available in **single-wall and double-wall** models

Corrosion-resistant inside and out

Lightweight tank is **easy to install**

30-year limited warranty



Oil-Water Separators (OWS)

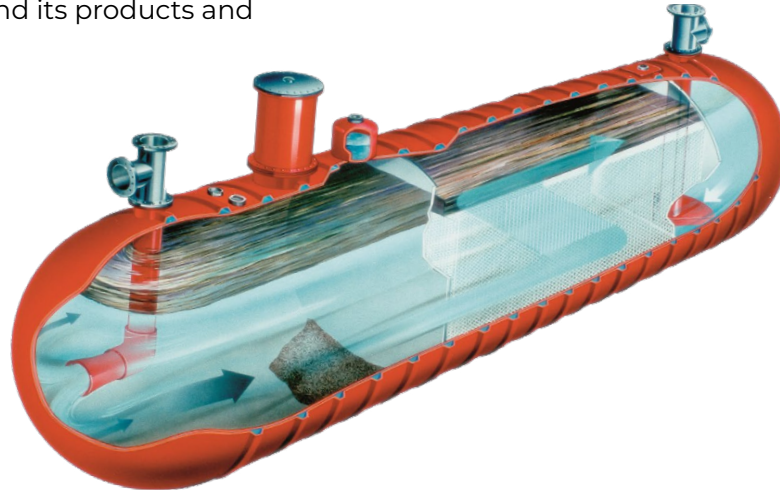
Product and project reliability

- Stringent quality control of manufacturing
- Ongoing technical support ensures that each tank is a long-term investment
- Comprehensive installation training is available
- 45+ years of composite manufacturing and 225,000+ installed tanks assure customers that Xerxes stands behind its products and warranties

Double-wall OWS for superior underground containment

For additional security, most customers choose the double-wall OWS with proprietary Xerxes technology:

- 3D glass-fabric Parabeam® to bond tank walls
- Truchek® hydrostatic monitoring system



UL 2215-listed OWS single-wall and double-wall tanks with vertical-tube coalescer

Tank Diameter	Nominal Capacities (Gallons)	Nominal Oil Storage Capacities (Gallons)	Flow Rate Range (Gallons Per Minute)
4-foot	600 – 1,000	60 - 103	34 - 136
6-foot	2,000 – 6,000	206 - 580	73 - 365
8-foot	6,000 – 12,000	576 - 1,166	76 - 1,520
10-foot	12,000 – 30,000	1,135 - 3,090	114 - 4,218

Based on maximum 1,000 ppm influent of free oil and 10ppm effluent.

Tank geometry and material creates strength

Xerxes tanks are designed and manufactured to provide decades of secure underground installation.

- Cylindrical tank with dished or domed end caps is designed to withstand the stresses of underground storage
- Integrally manufactured fiberglass ribs function like I-beams and enhance tank strength
- Premium resin and glass-fiber reinforcement create a structurally strong tank

CAN/ULC S656-listed OWS single-wall and double-wall tanks with coalescing plates

Tank Diameter	Nominal Capacities (Liters)	Nominal Oil Storage Capacities (Liters)	Flow Rate Range (Liters Per Minute)
4-foot	5,000	740	37-74
6-foot	15,000 - 20,000	1,400 - 1,870	164 - 446
8-foot	30,000 - 50,000	2,300 - 3,720	446 - 1,339
10-foot	46,000 - 113,000	4,300 - 11,700	432 - 15,967

Based on .85 specific gravity oil at 5C, stormwater inlet free-oil concentration 2,000/mg/liter.

Typical applications

- Truck stops
- Equipment washdown stations
- Bulk fuel plants
- Parking lots

Typical accessories

- Containment sump
- Manway and cover
- Liquid-level gauge
- Oil stop valve
- Electronic monitoring system

For over 45 years, Xerxes has designed and manufactured fiberglass underground storage tanks for fuel, water and wastewater. Xerxes' most recent expansion is its HydroChain™ stormwater product line — highly engineered products with site-specific designs for stormwater management solutions. Xerxes is a key brand of Matr, a global materials technology company serving critical infrastructure markets.