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## HIGHLAND TANK RECTANGULAR OIL/WATER SEPARATOR ANIMATION

Highland Tank Rectangular Oil/Water Separators are of the highest quality and constructed to American Petroleum Institute (API) and Underwriters' Laboratories (UL) Specifications.

They're designed for the removal of free floating oil, grease, and oily-coated solids from oil/water mixtures associated with many types of petroleum, industrial, commercial, military and municipal facilities.

Our high-efficiency oil/water separators are recommended for many industrial and commercial applications, such as:

- Airports & aircraft services
- Automobile dealers
- Electric utilities & power plants
- Environmental remediation
- Military & government facilities
- Petroleum marketing facilities
- Railroad yards
- Trucking & transportation
- Facility vehicle services



## HOW IT WORKS

Highland Tank's patented oil/water separators are stationary wastewater treatment tanks filled with water. They contain specially designed internal baffles and coalescers to accelerate the separation process.

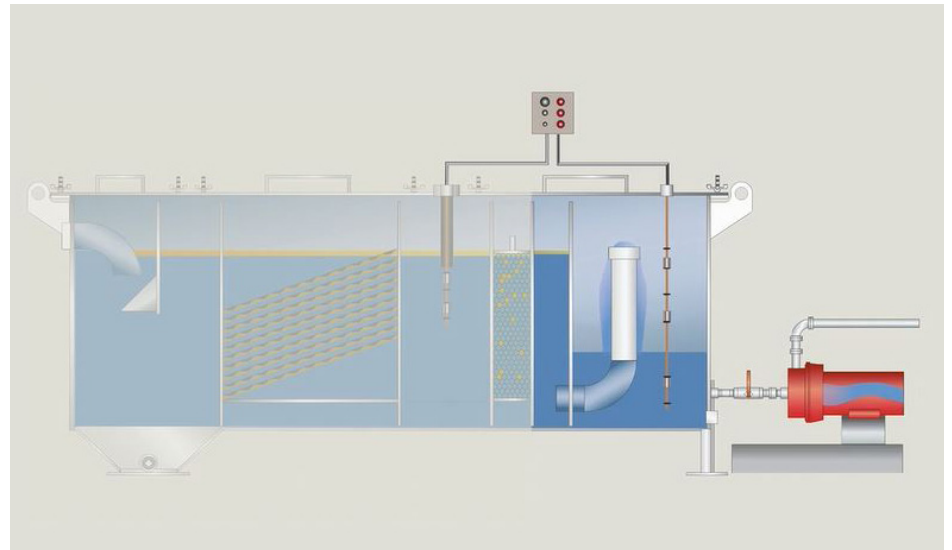
The tank is designed to allow convenient access for inspection and maintenance from above. Inlet flow is directed against the velocity head diffusion baffle to reduce flow turbulence and distribute the flow evenly over the separator's cross-sectional area. In the sediment chamber, heavy solids settle out and concentrated oil rises to the surface.

The oily water then passes through the Corella® Coalescer, an inclined arrangement of stacked, parallel, flat, and corrugated plates. The corrugated underside of the Corella® plates causes the oil to coalesce into sheets.

The oil globules then rise to the surface of the separation chamber, where the separated oil accumulates. Any remaining solids sink to the top of the plates and slide off the plates to the solids collection area.

The effluent flows down and toward the outlet and is discharged by gravity displacement. A petro-screen polypropylene impingement coalescer (an encased bundle of layered oil-attracting fibers) is used to intercept droplets of oil that are too minute to be removed by the Corella® Coalescer.

Electronic oil level controls sound an alarm at high oil levels so that waste oil can be removed from the separator. Double-wall separators are monitored with electronic leak detection systems for the interstitial space. Visit the website for the animation.



Call 814-893-5701 today or visit us at [www.highlandtank.com](http://www.highlandtank.com) for more information on wastewater treatment systems.

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